10/569812 MMP - UPDATED SEARCH REG NUMBERS

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAMLL1621

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

| | | |
|---|---|---|
| NEWS 1 | | Web Page for STN Seminar Schedule - N. America |
| NEWS 2 | MAY 01 | New CAS web site launched |
| NEWS 3 | MAY 08 | CA/CAplus Indian patent publication number format defined |
| NEWS 4 | MAY 14 | RDISCLOSURE on STN Easy enhanced with new search and display fields |
| NEWS 5 | MAY 21 | BIOSIS reloaded and enhanced with archival data |
| NEWS 6 | MAY 21 | TOXCENTER enhanced with BIOSIS reload |
| NEWS 7 | MAY 21 | CA/CAplus enhanced with additional kind codes for German patents |
| NEWS 8 | MAY 22 | CA/CAplus enhanced with IPC reclassification in Japanese patents |
| NEWS 9 | JUN 27 | CA/CAplus enhanced with pre-1967 CAS Registry Numbers |
| NEWS 10 | JUN 29 | STN Viewer now available |
| NEWS 11 | JUN 29 | STN Express, Version 8.2, now available |
| NEWS 12 | JUL 02 | LEMBASE coverage updated |
| NEWS 13 | JUL 02 | LMEDLINE coverage updated |
| NEWS 14 | JUL 02 | SCISEARCH enhanced with complete author names |
| NEWS 15 | JUL 02 | CHEMCATS accession numbers revised |
| NEWS 16 | JUL 02 | CA/CAplus enhanced with utility model patents from China |
| NEWS 17 | JUL 16 | CAplus enhanced with French and German abstracts |
| NEWS 18 | JUL 18 | CA/CAplus patent coverage enhanced |
| NEWS 19 | JUL 26 | USPATFULL/USPAT2 enhanced with IPC reclassification |
| NEWS 20 | JUL 30 | USGENE now available on STN |
| NEWS 21 | AUG 06 | CAS REGISTRY enhanced with new experimental property tags |
| NEWS 22 | AUG 06 | BEILSTEIN updated with new compounds |
| NEWS 23 | AUG 06 | FSTA enhanced with new thesaurus edition |
| NEWS 24 | AUG 13 | CA/CAplus enhanced with additional kind codes for granted patents |
| NEWS 25 | AUG 20 | CA/CAplus enhanced with CAS indexing in pre-1907 records |
| NEWS 26 | AUG 27 | Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB |
| NEWS 27 | AUG 27 | USPATOLD now available on STN |
| NEWS 28 | AUG 28 | CAS REGISTRY enhanced with additional experimental spectral property data |

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

| | |
|---|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS IPC8 | For general information regarding STN implementation of IPC 8 |

10/569812 MMP - UPDATED SEARCH REG NUMBERS

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:55:46 ON 06 SEP 2007

=> fil reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

FILE 'REGISTRY' ENTERED AT 11:56:07 ON 06 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 5 SEP 2007 HIGHEST RN 946114-43-8
DICTIONARY FILE UPDATES: 5 SEP 2007 HIGHEST RN 946114-43-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\2007 cases\10569812\updated search-B - claim 1 generic.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1

10/569812 MMP - UPDATED SEARCH REG NUMBERS

SAMPLE SEARCH INITIATED 11:56:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 25413 TO ITERATE

7.9% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 498722 TO 517798
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 11:56:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 508224 TO ITERATE

93.0% PROCESSED 472634 ITERATIONS 19 ANSWERS

98.8% PROCESSED 502212 ITERATIONS 19 ANSWERS

100.0% PROCESSED 508224 ITERATIONS 19 ANSWERS
SEARCH TIME: 00.00.36

L3 19 SEA SSS FUL L1

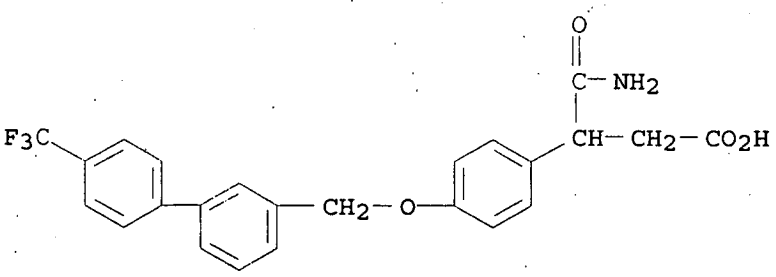
=> d his

(FILE 'HOME' ENTERED AT 11:55:46 ON 06 SEP 2007)

FILE 'REGISTRY' ENTERED AT 11:56:07 ON 06 SEP 2007
L1 STRUCTURE UPLOADED
L2 0 S L1
L3 19 S L1 SSS FULL

=> d l3 1-19 ide

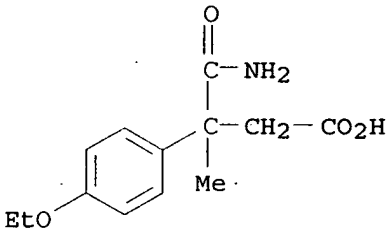
L3 ANSWER 1 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 865233-31-4 REGISTRY
ED Entered STN: 13 Oct 2005
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-[[4'-(trifluoromethyl)[1,1'-biphenyl]-3-yl]methoxy]- (9CI) (CA INDEX NAME)
MF C24 H20 F3 N O4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

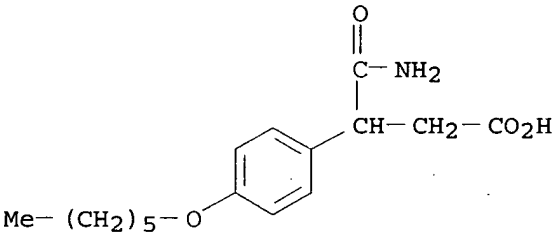
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 372082-15-0 REGISTRY
ED Entered STN: 28 Nov 2001
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-ethoxy-β-methyl- (9CI) (CA INDEX NAME)
MF C13 H17 N O4
SR Chemical Library
Supplier: Ambinter



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

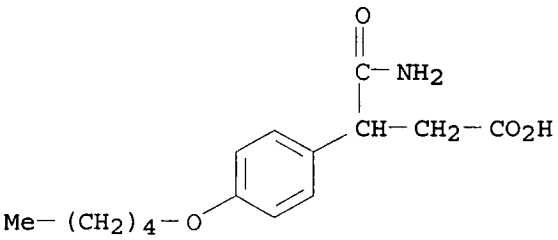
L3 ANSWER 3 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 331430-38-7 REGISTRY
ED Entered STN: 16 Apr 2001
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-(hexyloxy)- (9CI) (CA INDEX NAME)
MF C16 H23 N O4
SR Chemical Library
Supplier: AsInEx
LC STN Files: CHEMCATS



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

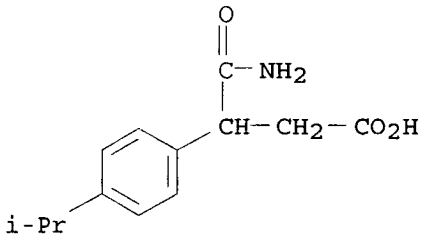
L3 ANSWER 4 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 300589-91-7 REGISTRY
ED Entered STN: 31 Oct 2000

CN Benzenepropanoic acid, β-(aminocarbonyl)-4-(pentyloxy)- (9CI) (CA INDEX NAME)
MF C15 H21 N O4
SR Chemical Library
Supplier: Interbioscreen Ltd.
LC STN Files: CHEMCATS



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L3 ANSWER 5 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 115906-13-3 REGISTRY
ED Entered STN: 20 Aug 1988
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-(1-methylethyl)- (9CI) (CA INDEX NAME)
MF C13 H17 N O3
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

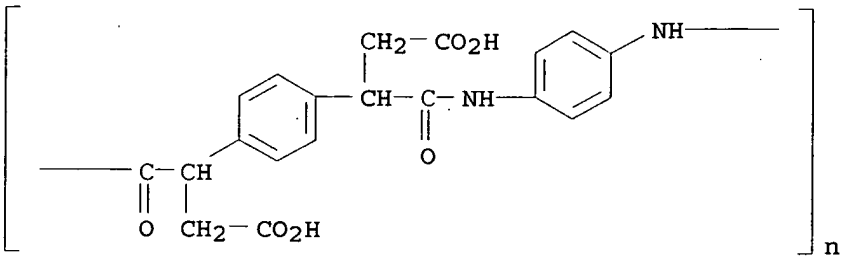


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

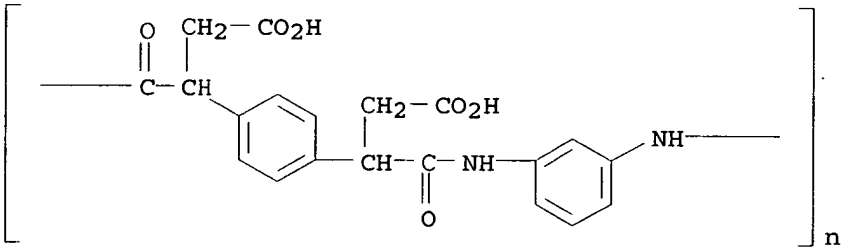
L3 ANSWER 6 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107065-64-5 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino-1,4-phenyleneimino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,4-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
MF (C20 H18 N2 O6)n
CI PMS
PCT Polyamide

SR CA
LC STN Files: CA, CAPLUS



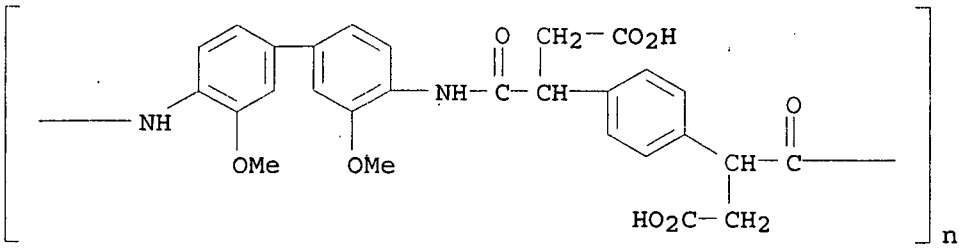
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 7 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107040-12-0 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino-1,3-phenyleneimino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,4-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
MF (C20 H18 N2 O6)n
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



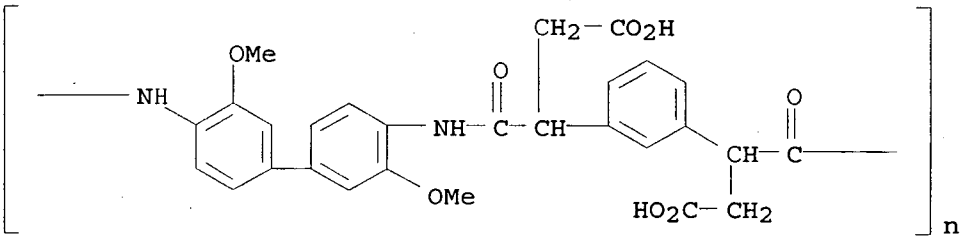
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 8 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107040-11-9 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)imino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,4-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
MF (C28 H26 N2 O8)n
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



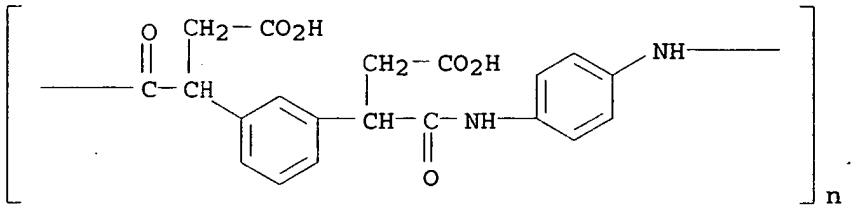
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 9 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107039-94-1 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)imino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,3-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
MF (C28 H26 N2 O8)n
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



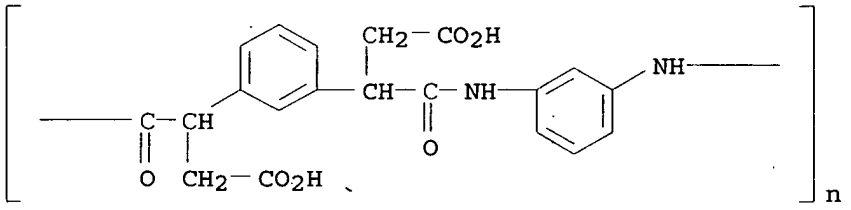
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 10 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107039-93-0 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino-1,4-phenyleneimino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,3-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
MF (C20 H18 N2 O6)n
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



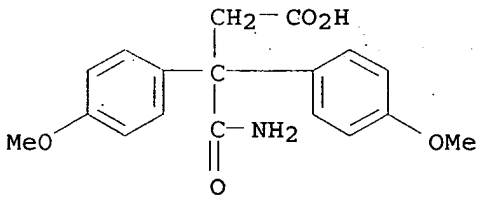
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 11 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107039-92-9 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino-1,3-phenyleneimino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,3-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
MF (C20 H18 N2 O6)n
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 12 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 101730-69-2 REGISTRY
ED Entered STN: 26 Apr 1986
CN Succinamic acid, 3,3-bis(p-methoxyphenyl)- (6CI) (CA INDEX NAME)
MF C18 H19 N O5
SR CAOLD
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)

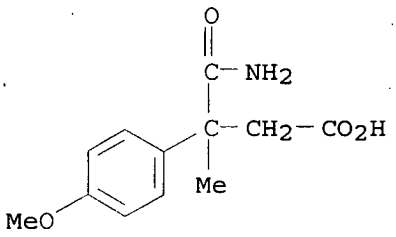


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

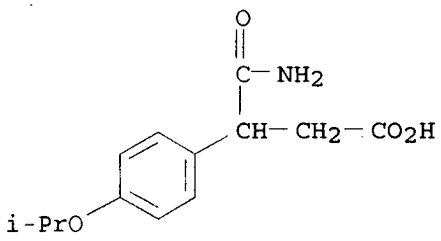
L3 ANSWER 13 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 91642-28-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Succinamic acid, 3-(p-methoxyphenyl)-3-methyl- (6CI, 7CI) (CA INDEX NAME)
MF C12 H15 N O4
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 14 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 72058-22-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-(1-methylethoxy)- (9CI)
(CA INDEX NAME)
MF C13 H17 N O4
LC STN Files: CA, CAPLUS

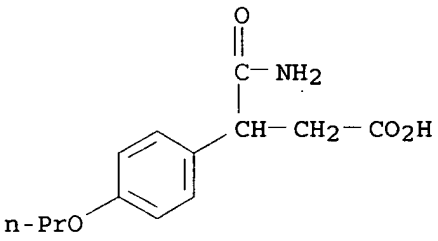


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 15 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 38499-27-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-propoxy- (9CI) (CA INDEX NAME)

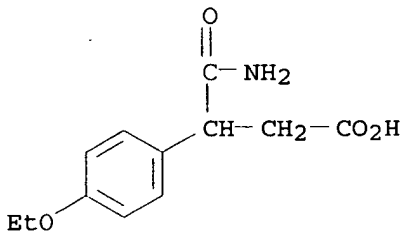
MF C13 H17 N O4
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

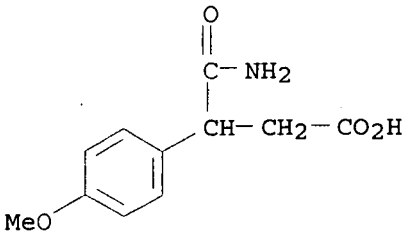
L3 ANSWER 16 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 38499-26-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-ethoxy- (9CI) (CA INDEX NAME)
MF C12 H15 N O4
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

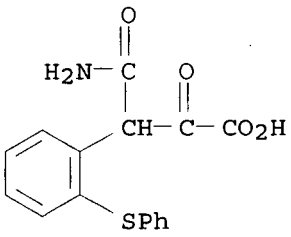
L3 ANSWER 17 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 38499-25-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-methoxy- (9CI) (CA INDEX NAME)
MF C11 H13 N O4
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS
(*File contains numerically searchable property data)



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

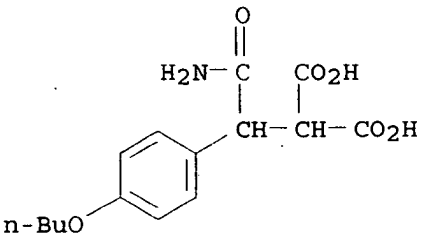
L3 ANSWER 18 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 36943-46-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-α-oxo-2-(phenylthio)-
(9CI) (CA INDEX NAME)
OTHER NAMES:
CN Carbamoyl(o-phenylthiophenyl)pyruvic acid
MF C16 H13 N O4 S
LC STN Files: BEILSTEIN*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATOLD
(*File contains numerically searchable property data)



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 19 OF 19 REGISTRY COPYRIGHT 2007 ACS on STN
RN 32857-82-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Malonic acid, (p-butoxy-α-carbamoylbenzyl)- (8CI) (CA INDEX NAME)
MF C15 H19 N O6
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
=> e l3 1-19 rn
E1            2     L2Z/BI
E2         9017     L3/BI
E3            0 --> L3 1-19 RN/BI
E4            3     L3'/BI
E5            1     L3.0/BI
E6            1     L3.01/BI
E7            1     L3.02/BI
E8            1     L3.03/BI
E9            1     L3.04/BI
E10           1     L3.05/BI
E11           1     L3.06/BI
E12           1     L3.07/BI

=> d l3 1-19 rn

L3   ANSWER 1 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   865233-31-4  REGISTRY

L3   ANSWER 2 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   372082-15-0  REGISTRY

L3   ANSWER 3 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   331430-38-7  REGISTRY

L3   ANSWER 4 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   300589-91-7  REGISTRY

L3   ANSWER 5 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   115906-13-3  REGISTRY

L3   ANSWER 6 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   107065-64-5  REGISTRY

L3   ANSWER 7 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   107040-12-0  REGISTRY

L3   ANSWER 8 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   107040-11-9  REGISTRY

L3   ANSWER 9 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   107039-94-1  REGISTRY
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RN   38499-27-3  REGISTRY

L3   ANSWER 16 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   38499-26-2  REGISTRY

L3   ANSWER 17 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   38499-25-1  REGISTRY

L3   ANSWER 18 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   36943-46-1  REGISTRY

L3   ANSWER 19 OF 19  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   32857-82-2  REGISTRY


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     FILE 'REGISTRY' ENTERED AT 11:56:07 ON 06 SEP 2007
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L3          19 S L1 SSS FULL
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FILE LAST UPDATED: 5 Sep 2007 (20070905/ED)

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L4 11 L3

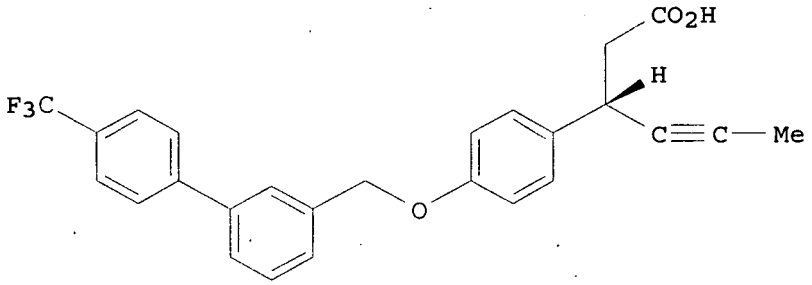
=> d l4 1-11 ibib abs

L4 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1026833 HCAPLUS
DOCUMENT NUMBER: 143:326090
TITLE: Preparation of arylmethoxyphenyl-alkylcarboxylic acids and related derivatives for use in treating metabolic disorders
INVENTOR(S): Akerman, Michelle; Houze, Jonathan; Lin, Daniel C. H.; Liu, Jiwen; Luo, Jian; Medina, Julio C.; Qiu, Wei; Reagan, Jeffrey D.; Sharma, Rajiv; Shuttleworth, Stephen J.; Sun, Ying; Zhang, Jian; Zhu, Liusheng
PATENT ASSIGNEE(S): Amgen Inc., USA; et al.
SOURCE: PCT Int. Appl., 163 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2005086661 | A2 | 20050922 | WO 2005-US5815 | 20050224 |
| WO 2005086661 | A3 | 20060504 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| AU 2005220728 | A2 | 20050922 | AU 2005-220728 | 20050224 |
| AU 2005220728 | A1 | 20050922 | | |
| CA 2558585 | A1 | 20050922 | CA 2005-2558585 | 20050224 |
| EP 1737809 | A2 | 20070103 | EP 2005-723623 | 20050224 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU | | | | |
| CN 1946666 | A | 20070411 | CN 2005-80012709 | 20050224 |
| BR 2005008098 | A | 20070717 | BR 2005-8098 | 20050224 |

| | | | | | |
|---|---|---|---|---|---|
| US 2006004012 | A1 | 20060105 | US 2005-67377 | | 20050225 |
| MX 2006PA09793 | A | 20061030 | MX 2006-PA9793 | | 20060828 |
| US 2007142384 | A1 | 20070621 | US 2006-591214 | | 20060828 |
| IN 2006DN05525 | A | 20070817 | IN 2006-DN5525 | | 20060922 |
| NO 2006004362 | A | 20061122 | NO 2006-4362 | | 20060926 |
| PRIORITY APPLN. INFO.: | | | US 2004-548741P | P | 20040227 |
| | | | US 2004-601579P | P | 20040812 |
| | | | WO 2005-US5815 | W | 20050224 |

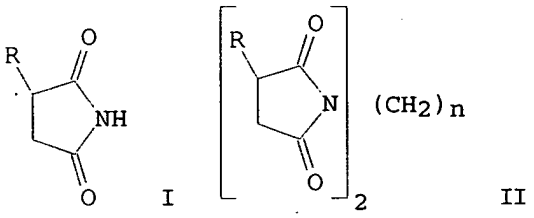
OTHER SOURCE(S): MARPAT 143:326090
GI



II

AB Title compds. Q-L1-P-L2-M-X-L3-A [Q = H, (hetero)aryl, alkyl, etc.; L1 = bond, alkylene, heteroalkylene, O, etc.; P = (hetero)aromatic, cycloalkylene, etc.; L2 = bond, alkylene, heteroalkylene, etc.; M = (hetero)aromatic, cycloalkylene, arylalkylene, etc.; X = divalent alkyl, (un)substituted-N; O, SO0-2; L3 = bond, alkylene, heteroalkylene, etc.; A = COOH, tetrazolyl, SO3H, PO3H2, etc.; I] are prepared For instance, (S)-3-[4-((4'-trifluoromethyl-1,1'-biphenyl-3-yl)methoxy)phenyl]hexan-4-ynoic acid (II) is prepared in 5 steps from (S)-3-(4-hydroxyphenyl)hexan-4-ynoic acid Me ester (preparation given), 4-(trifluoromethyl)phenylboronic acid and 3-bromobenzoic acid. II has an EC50 < 0.1 μM for human G protein-coupled receptor GPR40. I are useful for the treatment of type II diabetes.

L4 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:486102 HCAPLUS
DOCUMENT NUMBER: 109:86102
TITLE: Succinimide derivatives: chemical structure-anticonvulsant activity relation
AUTHOR(S): Avetisyan, S. A.; Nesunts, N. S.; Buyukyan, N. S.; Mndzhoyan, O. L.; Dzhagatspanyan, I. A.; Nazaryan, I. M.; Akopyan, N. E.
CORPORATE SOURCE: Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1988), 22(4), 433-8
CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 109:86102
GI



I II

AB Succinimides (I, R = 4-isopropylphenyl, or 4-cyclopropylphenyl) were prepared by the conversion of the corresponding benzyl chlorides to aldehydes, Knoevenagel reaction with di-Et malonate, HCN addition to the resulting ylidene malonates, hydrolysis, amidation-hydrolysis and cyclization. Treatment of I (R = 4-isopropoxyphenyl) with N2H4 gave N,N'-bis(p-isopropoxyphenylsuccinimide) (II, R = p-isopropoxyphenyl, n = 0). Similarly, other II (R = p-isopropoxyphenyl and n = 1-10) were prepared Of all the compds. studied, I (R = 4-isopropylphenyl, or 4-cyclopropylphenyl) and II (R = 4-isopropoxyphenyl and n = 0, 1, 2, 3, or 4) were completely devoid of the ability to prevent nicotinic hyperkinesis and arecoline tremors, as shown in mice. However, I and pufamide showed anticonvulsant activity in relation to corazole and elec. shock. Antagonism to corazole was observed in 50% of the animals at 68 and 90 mg/kg for I (R = 4-isopropylphenyl and 4-cyclopropylphenyl), resp., and to elec. shock at doses 92 and 94 mg/kg. Structure-activity relations are discussed.

L4 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:102756 HCAPLUS
DOCUMENT NUMBER: 106:102756
TITLE: Aliphatic polyimides from phenylene bis(succinic anhydride) and bis(glutaric anhydride)
AUTHOR(S): Teshirogi, Takuma
CORPORATE SOURCE: Macromol. Res. Lab., Yamagata Univ., Yonezawa, 992, Japan
SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (1987), 25(1), 31-6
CODEN: JPACEC; ISSN: 0887-624X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB m- And p-derivs. of phenylene bis(succinic anhydride) and bis(glutaric anhydride) were obtained from 1,3- [77104-43-9] and 1,4-bis(β-cyano-β-carbethoxyvinyl)benzene [47375-13-3] with KCN or Meldrum's acid followed by hydrolysis with concentrated HCl and dehydration with Ac2O. Aliphatic polyimides were prepared from these anhydrides with 6 aromatic diamines through thermal ring closure of polyamic acids obtained by solution polymerization in AcNMe2, and thermal stability of these polyimides was examined by thermogravimetric anal.

L4 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:611103 HCAPLUS
DOCUMENT NUMBER: 91:211103
TITLE: Antispasmodic
INVENTOR(S): Mndzhoyan, O. L.; Avetisyan, S. A.; Akopyan, N. E.; Gerasimyan, D. A.
PATENT ASSIGNEE(S): Institute of Fine Organic Chemistry, Academy of Sciences, Armenian S.S.R., USSR

SOURCE: Ger. Offen., 26 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2759051 | A1 | 19790712 | DE 1977-2759051 | 19771230 |

PRIORITY APPLN. INFO.: DE 1977-2759051 A 19771230
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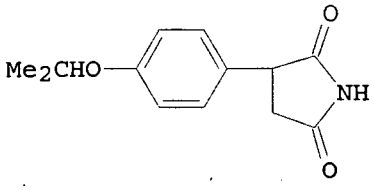


I

AB The phenylsuccinimide I, useful as a muscle relaxant in treating epilepsy with mild seizures, was prepared Thus, 4-Me2CHOC6H4CH(CO2H)CH2CO2H was warmed 2-3 h with Ac2O to give the corresponding succinic anhydride, which, in EtOAc, was treated with NH3-Et2O to give the 2 isomeric α-(4-isopropoxyphenyl)succinamidic acids. These were cyclized by heating to 200-20° with H2O removal to give 68-70% I. Tests of I with mice and rats gave ED50 86, 110, 77, and 90 mg/kg as a muscle relaxant in the korasol, strychnine, electroshock, and camphor tests, resp.

L4 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1977:439351 HCAPLUS
DOCUMENT NUMBER: 87:39351
TITLE: Studies of semisynthetic penicillins. XI. The 6-aminopenicillane derivatives of p-alkoxyphenyl- and p-alkoxybenzylsuccinic acids. Ester penicillins
AUTHOR(S): Mndzhoyan, Sh. L.; Manucharyan, I. Z.; Bil'bulyan, S. Z.; Ter-Zakharyan, Yu. Z.; Paronikyan, R. V.; Kazaryan, E. V.; Mndzhoyan, A. L.
CORPORATE SOURCE: Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1977), 11(3), 49-53
CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
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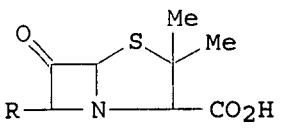


I, R=R1CH(CO2Me)CH2CONH
II, R=R1CH(CH2CO2Me)CONH

AB Penicillanic acid derivs. I and II [R1 = p-(C1-4 alkoxy)phenyl, p-(C1-4 alkoxy)benzyl] were obtained in 40-64% yields by treating 6-aminopenicillanic acid with the corresponding Me esters of succinic acid. I and II are effective bactericides.

L4 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:539560 HCAPLUS
DOCUMENT NUMBER: 77:139560
TITLE: Ammonolysis of p-alkoxyphenylsuccinic acid anhydrides
AUTHOR(S): Avetisyan, S. A.; Midzhoyan, O. L.
CORPORATE SOURCE: Inst. Tonkoi Org. Khim. im. Mndzhoyana, Erevan, USSR
SOURCE: Armyanskii Khimicheskii Zhurnal (1972), 25(6), 512-17
CODEN: AYKZAN; ISSN: 0515-9628
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Ammonolysis of p-alkoxy-phenylsuccinic acid anhydrides gave an α-isomer, p-ROC6H4CH-(CONH2)CH2CO2H (R = Me, Et, Br), and larger amts. of a β-isomer, p-ROC6H4CH(CO2H)CH2CONH2, compared with the unsubstituted phenyl analogs which gave the opposite ratio of α- and β-isomers. The increase in the β-isomer with alkoxy substitution was explained by its resonance effect.

L4 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:514271 HCAPLUS
DOCUMENT NUMBER: 77:114271
TITLE: N-Substituted debenzo[b,f]thiepin-10-ylmethylamines and related intermediates
INVENTOR(S): Gosteli, Jacques
PATENT ASSIGNEE(S): Ciba-Geigy A.-G.
SOURCE: Ger. Offen., 85 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2165260 | A | 19720727 | DE 1971-2165260 | 19711229 |
| CH 550189 | A | 19740614 | CH 1971-243 | 19710108 |
| DD 95395 | A5 | 19730212 | DD 1971-159981 | 19711229 |
| ZA 7108705 | A | 19720927 | ZA 1971-8705 | 19711230 |
| US 3787444 | A | 19740122 | US 1971-214475 | 19711230 |
| NL 7118218 | A | 19720711 | NL 1971-18218 | 19711231 |
| AT 313904 | B | 19740311 | AT 1972-85 | 19720105 |
| BE 777752 | A1 | 19720706 | BE 1972-112594 | 19720106 |
| FR 2121665 | A5 | 19720825 | FR 1972-460 | 19720107 |
| HU 163513 | B | 19730927 | HU 1972-CI1199 | 19720107 |

PRIORITY APPLN. INFO.: CH 1971-243 A 19710108
GI For diagram(s), see printed CA Issue.
AB Antiinflammatory dibenzothiepinylmethylamines (I, R = CH2NH2, CH2NHMe, CH2NMe2, CH2NEt2, pyrrolidinomethyl, piperidinomethyl, piperazinomethyl; R1 and R2 = H, Cl, OMe) were prepared from I (R = CO2H) via the chloride and carboxamide, which was reduced with LiAlH4. I (R = CO2H) were also prepared, e.g. by condensing PhSH with o-ClC6H4CHO, followed by hippuric acid to give 2-phenyl-4-(o-phenylthiobenzylidine)-2-oxazolin-5-one, which was hydrolyzed to o-PhSC6H4CH2CO-CO2H, and subjected to acid cyclization to give I (R = CO2H, R1 = R2 = H).

L4 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:448636 HCAPLUS
DOCUMENT NUMBER: 75:48636
TITLE: Derivatives of dibasic carboxylic acids. XXXIV. N-Methyl-α-(p-alkoxyphenyl)succinimides
AUTHOR(S): Avetisyan, S. A.; Mndzhoyan, O. L.
CORPORATE SOURCE: Inst. Tonkoi Org. Khim., Erevan, USSR
SOURCE: Armyanskii Khimicheskii Zhurnal (1971), 24(2), 137-45
CODEN: AYKZAN; ISSN: 0515-9628
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Di-Et malonate was condensed with p-ROC6H4CHO in the presence of piperidine and AcOH to give 54-87% p-ROC6H4CH:C(CO2Et)2 (I, R = Me, Et, Pr, iso-Pr, Bu, iso-Bu, |amyl, isoamyl). Addition of HCN from aqueous-alc. NaCN to I gave a mixture of β-(p-alkoxyphenyl)-β-cyanopropionic (II), (p-alkoxyphenyl)succinamic (III), and (p-alkoxyphenyl)succinic acids. II are formed predominantly from I (R = Me, Et, Pr). I (R = Bu) yielded a mixture which gave (p-butoxyphenyl)succinimide and (p-butoxyphenyl)-β-acrylic acid on heating. Anhydrides of substituted succinic acids were obtained by treating the acids with Ac2O. The N-Me derivs. of III were obtained from the anhydrides and MeNH2 at room temperature N-Methyl(p-alkoxyphenyl)succinimides were obtained by heating III. The spasmolytic activities of III are lower than those of N-substituted (p-alkoxyphenyl)succinimides. Thus, N-methylation increases the spasmolytic activity of phenyl succinimides but reduces it in their p-alkoxy derivs.

L4 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1963:39491 HCAPLUS
DOCUMENT NUMBER: 58:39491
ORIGINAL REFERENCE NO.: 58:6665e-h,6666a-c
TITLE: Syntheses and physical chemical studies of substituted ethyl 2-cyano-2-propenoates and their derivatives. II. Preparation of substituted ethyl 2,3-dicyanopropanoates and the study of the mechanism of their hydrolysis. The corresponding succinic acids and some of their nitrogen derivatives
AUTHOR(S): Carrie, Robert
CORPORATE SOURCE: Univ. Rennes, Fr.
SOURCE: Bulletin de la Societe Scientifique de Bretagne (1962), 37, 29-58
CODEN: BSSBAS; ISSN: 0037-9581
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB RR'C:C(CN)CO2Et (10 g.) and 30 mL. EtOH were mixed at 95°, the solution boiled and 5 g. KCN in 15 mL. H2O added, the mixture refluxed and cooled, made acid with HCl, and diluted with 180 mL. H2O; an oil separated and was extracted with Et2O, dried, and NCCRR'CH(CN)CO2Et (II) obtained by distillation in vacuo. The following II were prepared (R, R', % yield, and m.p. or b.p. given): Ph, H, 90, m. (65°; Ph, Me, --, m. 77-8°; 4-O2NC6H4, Me, --, m. 76°; 4-Cl-C6H4, Me, --, b1 170°; 4-MeC6H4, Me, --, b1 171-3°; 4-MeOC6H4, Me, --, b3 198-200°. Other II prepared were: Ph, Ph; Ph, PhCH2; PhCH2, PhCH2. A dicyanopropanoate ester (5 g.) was dissolved in 70 g. 93% H2SO4, and the solution kept 6 h. at room temperature and poured onto crushed ice to give H2NOCCRR'CH(CONH2)CO2Et (III). III prepared in this manner were (R, R', and m.p. given): Ph, H,

252-4°; Ph, Me, 186-7°; 4-O2NC6H4, Me, 193-4°; 4-ClC6H4, Me, 207-8°; 4-MeC6H4, Me, 174°; 4-MeOC6H4, Me, 204°; Ph, Ph, 154°. Diamide ester (2 g.) was dissolved in a solution of 1 g. NaOH in 20 mL. 50% alc., the resulting solution diluted with 50 mL. H2O, and acidified with HCl to precipitate IV. IV prepared by this method were (R, R', and m.p. given): Ph, H, 218°; Ph, Me, 201-2°; 4-O2NC6H4, Me, 235-6°; 4-ClC6H4, Me, 213°; 4-MeC6H4, Me, 186°; 4-MeOC6H4, Me, 180-2°. This treatment of III (R = R' = Ph) gave the Na salt of the diamide acid, m. 247-50°, and acidification of the salt with HCl gave the diamide acid. m. 135-40°. NCCRR'CH2CN (V, R = Ph, R' = H) was prepared by treating I (R = Ph, R' = H) with KCN in alc. at boiling, yield 55-60%, m. 65°. II (R = 4-XC6H4, R' = Me) (10 g.) was saponified with N Na2CO3 in 200 mL. 50% H2O-alc. containing 5 g. KCN by refluxing 2-3 h. and the mixture was poured into 500-600 mL. H2O to give 4-XC6H4CMe-(CN)CH2CN (VI) (X, % yield, and m.p. given): NO2, 52-6, 139°; Cl, 75-80, 49°; H, 76-80, 29°; Me, 82-5, 49-50°; MeO, 81-4, 51-2°; OH, 78-81, 110-20°; NH2, 75-8, 69°. Similarly prepared was 2,2-diphenylsuccinonitrile, 85-90% yield, m. 112°. Various 2-methyl-2-arylsuccinamides were prepared by treatment of the succinonitriles with cold concentrated H2SO4 (aryl, % yield, and m.p. given): 4-O2NC6H4, 75, 184°; 4-ClC6H4, 40, 195°; Ph, 30, 145°; 4-MeC6H4, 40, 196°. Some of these succinonitriles were converted to the corresponding cyano amides when heated with 0.25N NaOH (50% H2O-alc.). Compds. prepared, where R = 4-XC6H4 and R' = Me, were (X and m.p. given): NO2, 296-8°; Cl,247-8°; H, 258-60°; 255-6°; MeO, 249-50°; NH2, 260°. The reaction mixture, after separation of amide nitrile, was acidified to give IV (R = p-XC6H4, R' = Me) (X and m.p. given): NO2, 159°; Cl, 152°; H, 81°; Me, 102°; MeO, 108°; NH2, 154°. Some amide acids, RR'C(CONH2)CH2CO2H, were isolated: X (as above) = NO2, Cl, and MeO, in yields of 6-7, 7-8, and 11-12%, resp. Alkaline hydrolysis of some succinonitriles gave the corresponding succinic acids, HO2CCRR'CH2CO2H (VII) (R, R', % yield, and m.p. given): Ph, H, 78-88, 167°; Ph, Ph, 88-9, 107-9°; VII (R' = Me, R = 4-XC6H4) (X given): 85, --; Cl, 93, 185°; Me, 85, 187-8°; MeO, 95, 185°; OH, 90, 196-7°; NO2, 55, 142°; NH2, 80, decomposed 216-18°. VII were treated with MeOH and concentrated H2SO4 to form the mono-and di-Me esters (R' = Me, R = 4-XC6H4) (X, yield, and m.p. of half ester, yield of diester given): Cl, 66, 90-1°, 24; Me, 60, 82-3°, 22; Me, 68, 91-2°, 27. The acid group of the monoester was on the substituted C. The half ester of α-methyl-α-(4-methylphenyl)succinic acid gave the di-Me ester after treatment with Me2SO4, m. 38°. Half esters where the acid group was on the unsubstituted C were prepared by treatment of the diester with NaOH in alc. Compds. prepared were (X as above, % yield, and m.p. given): Cl, 52, 80°; MeO, 58, 105°; Me, 46, 105°.

L4 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1961:59332 HCAPLUS
DOCUMENT NUMBER: 55:59332
ORIGINAL REFERENCE NO.: 55:11353e-h
TITLE: Careful hydrolysis of some substituted 2-phenyl-2-methyl-3-carbethoxysuccinonitriles
AUTHOR(S): Carrie, Robert

CORPORATE SOURCE: Fac. sci. Rennes, Fr.
SOURCE: Compt. rend. (1960), 251, 2981-3
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB When X-substituted derivs. of title compound, generally 2-methyl-2-[4-(X-substituted)-phenyl]-3-carbethoxysuccinonitrile (I), were hydrolyzed with hot N Na2CO3 in H2O-EtOH, 1st the carbethoxy group was hydrolyzed, then the unstable carboxy group eliminated to give 2-methyl-2-[4-(X-substituted)phenyl]succinonitrile (II). From I the following II were obtained (X, m.p., % yield, and reaction time in hrs. given): NO2, 139°, 52-6, 2.5; Cl, 49°, 75-80, 3; H, 29°, 76-80, 3; Me, 49-50°, 83-5, 3; OMe, 51-2°, 81-4, 2.5; OH, 119-120°, 78-81, 3; NH2, 69°, 75-81, 2. I hydrolyzed with N/2 NaOH by boiling 0.5 hr. in H2O-EtOH gave 25% 2-methyl-2-[4-(X-substituted)-phenyl]succino-1-nitrile-4-amide (III) or 2-methyl-2-[4-(X-substituted)-phenyl] succino-4-nitrile-1-amide (IV) and 45% 2-methyl-2-[4-(X-substituted)-phenyl]-succinimide (V). III or IV prepared were (X and m.p. given): NO2, 296-8°; Cl, 247-8°; H, 258-60°; Me, 255-6°; OMe, 249-50° (with 0.5H2O); NH2, 260° (with 0.5H2O). V prepared were: NO2, 159°; Cl, 152°; H, 81°; Me, 102°; OMe, 108°; NH2, 154°. II hydrolyzed with N NaOH in H2O-EtOH by boiling 1 hr. gave 26-30% V, but also 2-methyl-2-[4-(X-substituted)-phenyl] succinic 4-acid-1-amide (VI) and 2-methyl-2-[4-(X-substituted)-phenyl]succinic acid (VII). II gave the following V (X, % yield, and m.p. given): NO2, 29, 180°; Cl, 16, 197-8°; OMe, 33, 189°. I treated with cold 93% H2SO4 6 hrs. gave 2-methyl-2-[4-(X-substituted)-phenyl]-3-carbethoxysuccindiamide (VIII) and 2-methyl-2-[4-(X-substituted)-phenyl]-3-carbamoylsuccinimide (IX). I gave the following VIII: NO2, 193-4°; Cl, 207-8°; Me, 174°; OMe, 204°. The following IX: NO2, 235-6°; Cl, 213°; Me, 186°; OMe, 180-2°. It was found that the electronic influence of X-substitution on the reactivity of I or II was weak.

L4 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1958:50475 HCAPLUS
DOCUMENT NUMBER: 52:50475
ORIGINAL REFERENCE NO.: 52:9044c-f
TITLE: α,α-Bis(p-methoxyphenyl)succinic acid
AUTHOR(S): Salmon-Legagneur, Francois; Bobin, Claude
SOURCE: Compt. rend. (1957), 245, 1810-13
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 52:50475
AB cf. C.A. 33, 62854. [Y throughout this abstract = p-MeOC6H4.] The procedure previously used for the preparation of HO2CCPh2CH2CO2H has made possible the preparation of a series of α, α-di-Ph acids of the type HO2CCPh2(CH2)nCO2H, where n = 1 to 11. Y2CHCN (I), m. 154°, was prepared by reaction of YCHO with HCN and condensation of the YCH(OH)CN with PhOMe. I, in C6H6, with NaNH2 and BrCH2CO2Et gave NCCY2CH2CO2Et, m. 78°; Me ester analog, m. 67-8°. With KOH was obtained the free acid, m. 185°, which, with 2:1 HCl and HOAc gave HO2CCY2CH2CO2H, m. 212-13°, forming the anhydride, m. 86-7°, with Ac2O. RO2CCY2CH2CO2R' (R, R', and m.p. given) were similarly prepared: H, Me, 128-30°; H, Et, 129°; Me, H, 122°; Et, H, 104°, Me, Me, 81°; Et, Et, 101°; Me, Et, 78°; Et, Me, 86-7°. Amido derivs. of the type H2NOCCPh2CH2CO2R were obtained by hydration in the cold with 85% H2SO4 of NCCPh2CH2CO2R (R and m.p. given): H, 156°; Me, 130-1°; Et, 115°.

α,α-Bis-p-methoxyphenylsuccinimide, m. 198°, was obtained from one of the ester amides with dilute NaOH. This reaction shows that the two carboxyls must be very close, since cyclization is accomplished under conditions usually employed for the hydrolysis of cyclic imides.

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CA SUBSCRIBER PRICE                                    -8.58      -8.58

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CA SUBSCRIBER PRICE                                     0.00      -8.58

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LAST RELOADED: Aug 31, 2007 (20070831/UP).

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FULL ESTIMATED COST                                     0.48     250.60

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CA SUBSCRIBER PRICE                                     0.00      -8.58

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DICTIONARY FILE UPDATES:   5 SEP 2007  HIGHEST RN 946114-43-8
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10/569812 MMP - UPDATED SEARCH REG NUMBERS

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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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L3 19 S L1 SSS FULL
E L3 1-19 RN

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L4 11 S L3

FILE 'STNGUIDE' ENTERED AT 11:59:09 ON 06 SEP 2007

FILE 'STNGUIDE' ENTERED AT 12:14:21 ON 06 SEP 2007

FILE 'REGISTRY' ENTERED AT 12:19:26 ON 06 SEP 2007

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115906-13-3/rn Or 107065-64-5/rn or 107040-12-0/RN or 107040-11-9/RN or
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=> d l5 1-9 ide

L5   ANSWER 1 OF 9  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   865233-31-4  REGISTRY
ED   Entered STN:  13 Oct 2005
CN   Benzenepropanoic acid, β-(aminocarbonyl)-4-[[4'-
     (trifluoromethyl)[1,1'-biphenyl]-3-yl]methoxy]- (9CI)   (CA INDEX NAME)
MF   C24 H20 F3 N O4
SR   CA
LC   STN Files:   CA, CAPLUS, TOXCENTER, USPATFULL
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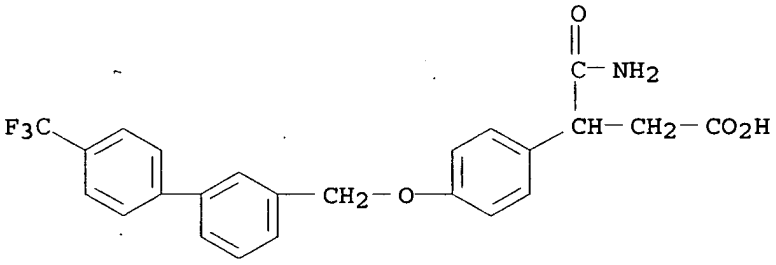

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L5   ANSWER 2 OF 9  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   372082-15-0  REGISTRY
ED   Entered STN:  28 Nov 2001
CN   Benzenepropanoic acid, β-(aminocarbonyl)-4-ethoxy-β-methyl-
     (9CI)  (CA INDEX NAME)
MF   C13 H17 N O4
SR   Chemical Library
       Supplier: Ambinter
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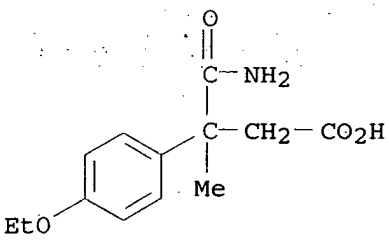

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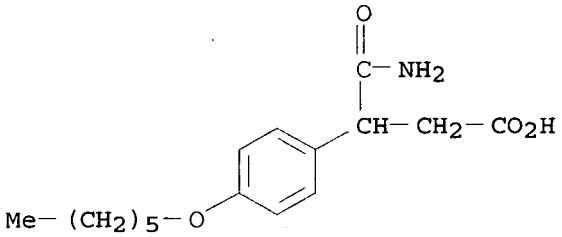
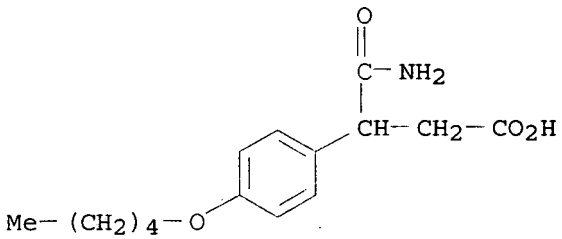
L5 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 331430-38-7 REGISTRY
ED Entered STN: 16 Apr 2001
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-(hexyloxy)- (9CI) (CA INDEX NAME)
MF C16 H23 N O4
SR Chemical Library
Supplier: AsInEx
LC STN Files: CHEMCATS



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

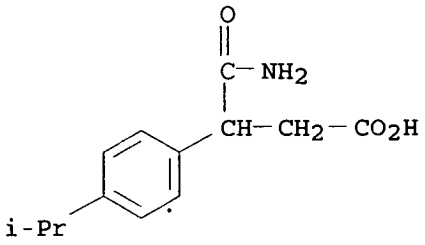
L5 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 300589-91-7 REGISTRY
ED Entered STN: 31 Oct 2000
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-(pentyloxy)- (9CI) (CA INDEX NAME)
MF C15 H21 N O4
SR Chemical Library
Supplier: Interbioscreen Ltd.
LC STN Files: CHEMCATS



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L5 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 115906-13-3 REGISTRY
ED Entered STN: 20 Aug 1988
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-(1-methylethyl)- (9CI) (CA INDEX NAME)
MF C13 H17 N O3

SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



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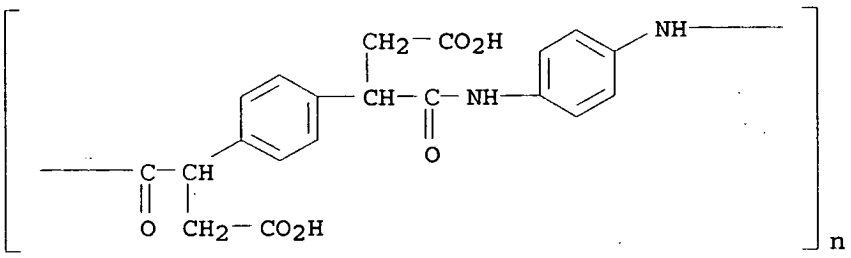
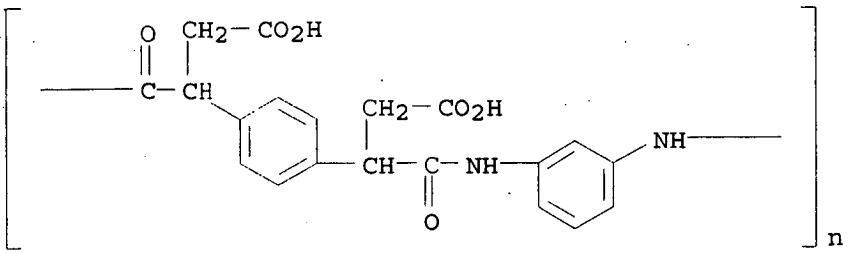
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107065-64-5 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino-1,4-phenyleneimino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,4-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
MF (C20 H18 N2 O6)n
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107040-12-0 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino-1,3-phenyleneimino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,4-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
MF (C20 H18 N2 O6)n
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
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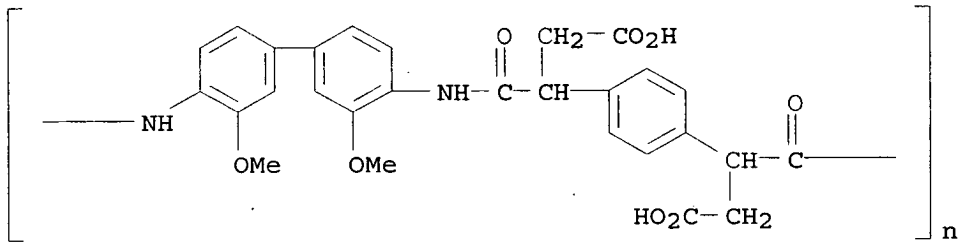
L5 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107040-11-9 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)imino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,4-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI). (CA INDEX NAME)
MF (C28 H26 N2 O8)n
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
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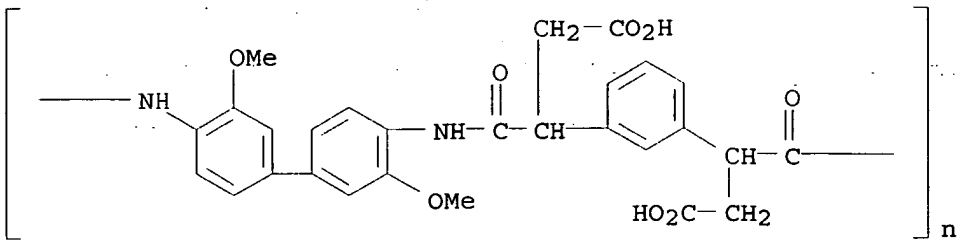
L5 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107039-94-1 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)imino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,3-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
MF (C28 H26 N2 O8)n
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



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L4              11 S L3

     FILE 'STNGUIDE' ENTERED AT 11:59:09 ON 06 SEP 2007

     FILE 'STNGUIDE' ENTERED AT 12:14:21 ON 06 SEP 2007

     FILE 'REGISTRY' ENTERED AT 12:19:26 ON 06 SEP 2007
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L6              10 S 107039-93-0/RN  OR 107039-92-9/RN  OR  101730-69-2/RN  OR  91

=> d l6 1-10 ide

L6   ANSWER 1 OF 10  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   107039-93-0  REGISTRY
ED   Entered STN:  14 Mar 1987
CN   Poly[imino-1,4-phenyleneimino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,3-
     phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI)  (CA INDEX NAME)
MF   (C20 H18 N2 O6)n
CI   PMS
PCT  Polyamide
SR   CA
LC   STN Files:   CA, CAPLUS
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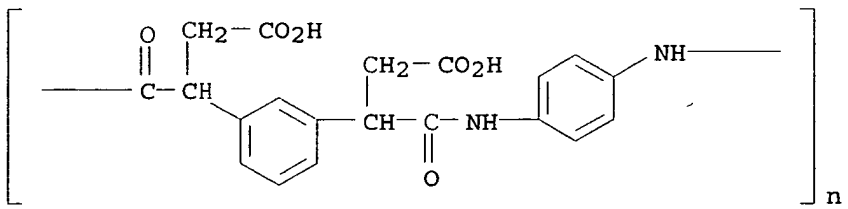

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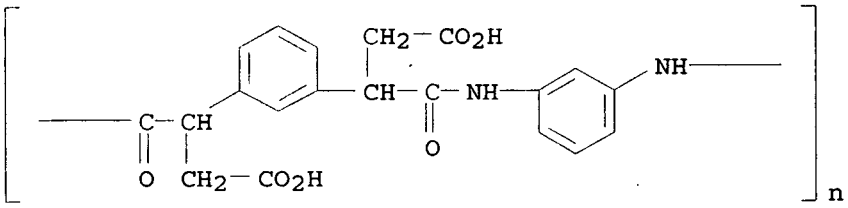
L6 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2007 ACS on STN
RN 107039-92-9 REGISTRY
ED Entered STN: 14 Mar 1987
CN Poly[imino-1,3-phenyleneimino[2-(carboxymethyl)-1-oxo-1,2-ethanediyl]-1,3-phenylene[1-(carboxymethyl)-2-oxo-1,2-ethanediyl]] (9CI) (CA INDEX NAME)
MF (C20 H18 N2 O6)n
CI PMS
PCT Polyamide
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2007 ACS on STN
RN 101730-69-2 REGISTRY
ED Entered STN: 26 Apr 1986
CN Succinamic acid, 3,3-bis(p-methoxyphenyl)- (6CI) (CA INDEX NAME)
MF C18 H19 N O5
SR CAOLD
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
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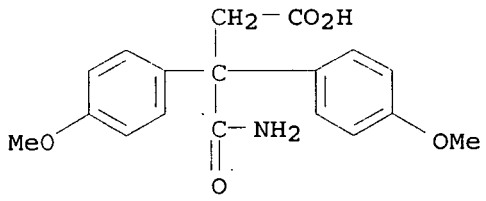

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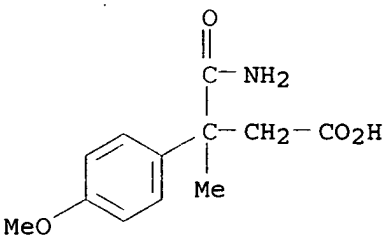
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2007 ACS on STN
RN 91642-28-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Succinamic acid, 3-(p-methoxyphenyl)-3-methyl- (6CI, 7CI) (CA INDEX NAME)
MF C12 H15 N O4
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS

(*File contains numerically searchable property data)



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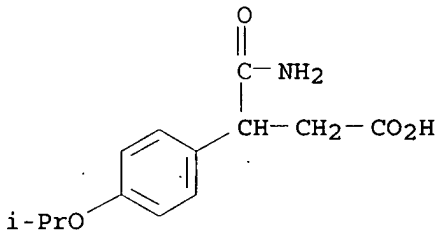
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2007 ACS on STN
RN 72058-22-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-(1-methylethoxy)- (9CI) (CA INDEX NAME)
MF C13 H17 N O4
LC STN Files: CA, CAPLUS



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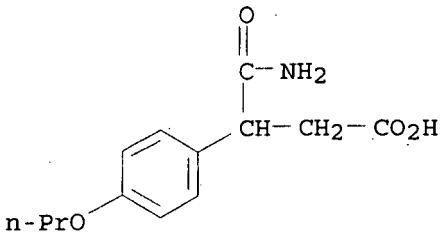
L6 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2007 ACS on STN
RN 38499-27-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-propoxy- (9CI) (CA INDEX NAME)
MF C13 H17 N O4
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

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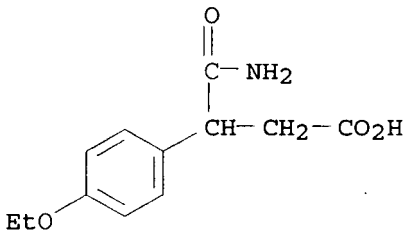
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

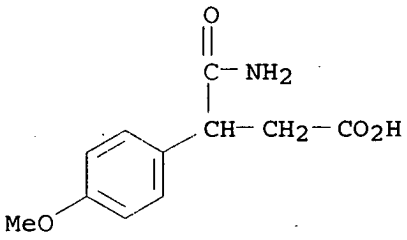
L6 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2007 ACS on STN
RN 38499-26-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-ethoxy- (9CI) (CA INDEX NAME)
MF C12 H15 N O4
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

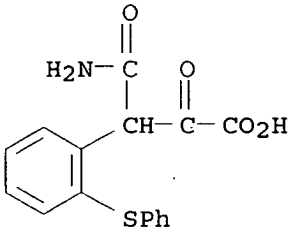
L6 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2007 ACS on STN
RN 38499-25-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-methoxy- (9CI) (CA INDEX NAME)
MF C11 H13 N O4
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS
(*File contains numerically searchable property data)



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

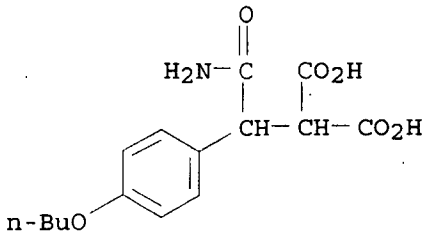
L6 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2007 ACS on STN
RN 36943-46-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-α-oxo-2-(phenylthio)-
(9CI) (CA INDEX NAME)
OTHER NAMES:
CN Carbamoyl(o-phenylthiophenyl)pyruvic acid
MF C16 H13 N O4 S
LC STN Files: BEILSTEIN*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATOLD
(*File contains numerically searchable property data)



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2007 ACS on STN
RN 32857-82-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Malonic acid, (p-butoxy-α-carbamoylbenzyl)- (8CI) (CA INDEX NAME)
MF C15 H19 N O6
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 11:55:46 ON 06 SEP 2007)

FILE 'REGISTRY' ENTERED AT 11:56:07 ON 06 SEP 2007
L1 STRUCTURE UPLOADED
L2 0 S L1
L3 19 S L1 SSS FULL
E L3 1-19 RN

FILE 'HCAPLUS' ENTERED AT 11:58:43 ON 06 SEP 2007
L4 11 S L3

FILE 'STNGUIDE' ENTERED AT 11:59:09 ON 06 SEP 2007

FILE 'STNGUIDE' ENTERED AT 12:14:21 ON 06 SEP 2007

FILE 'REGISTRY' ENTERED AT 12:19:26 ON 06 SEP 2007
L5 9 S 865233-31-4/RN OR 372082-15-0/RN OR 331430-38-7/RN OR 300589
L6 10 S 107039-93-0/RN OR 107039-92-9/RN OR 101730-69-2/RN OR 91

=> fil hcaplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 38.85 | 289.45 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -8.58 |

FILE 'HCAPLUS' ENTERED AT 12:22:05 ON 06 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 6 Sep 2007 VOL 147 ISS 11
FILE LAST UPDATED: 5 Sep 2007 (20070905/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l5
L7 3 L5

=> s l6
L8 9 L6

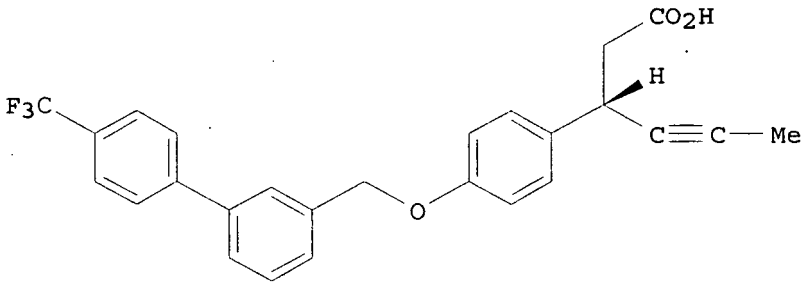
=> d l7 1-3 ibib abs

L7 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1026833 HCAPLUS
DOCUMENT NUMBER: 143:326090
TITLE: Preparation of arylmethoxyphenyl-alkylcarboxylic acids and related derivatives for use in treating metabolic disorders
INVENTOR(S): Akerman, Michelle; Houze, Jonathan; Lin, Daniel C. H.; Liu, Jiwen; Luo, Jian; Medina, Julio C.; Qiu, Wei; Reagan, Jeffrey D.; Sharma, Rajiv; Shuttleworth, Stephen J.; Sun, Ying; Zhang, Jian; Zhu, Liusheng
PATENT ASSIGNEE(S): Amgen Inc., USA; et al.
SOURCE: PCT Int. Appl., 163 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2005086661 | A2 | 20050922 | WO 2005-US5815 | 20050224 |
| WO 2005086661 | A3 | 20060504 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| AU 2005220728 | A2 | 20050922 | AU 2005-220728 | 20050224 |
| AU 2005220728 | A1 | 20050922 | | |
| CA 2558585 | A1 | 20050922 | CA 2005-2558585 | 20050224 |
| EP 1737809 | A2 | 20070103 | EP 2005-723623 | 20050224 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, | | | | |

| | | | | | |
|---|---|---|---|---|---|
| HR, LV, MK, YU | | | | | |
| CN 1946666 | A | 20070411 | CN 2005-80012709 | | 20050224 |
| BR 2005008098 | A | 20070717 | BR 2005-8098 | | 20050224 |
| US 2006004012 | A1 | 20060105 | US 2005-67377 | | 20050225 |
| MX 2006PA09793 | A | 20061030 | MX 2006-PA9793 | | 20060828 |
| US 2007142384 | A1 | 20070621 | US 2006-591214 | | 20060828 |
| IN 2006DN05525 | A | 20070817 | IN 2006-DN5525 | | 20060922 |
| NO 2006004362 | A | 20061122 | NO 2006-4362 | | 20060926 |
| PRIORITY APPLN. INFO.: | | | US 2004-548741P | P | 20040227 |
| | | | US 2004-601579P | P | 20040812 |
| | | | WO 2005-US5815 | W | 20050224 |

OTHER SOURCE(S): MARPAT 143:326090
GI



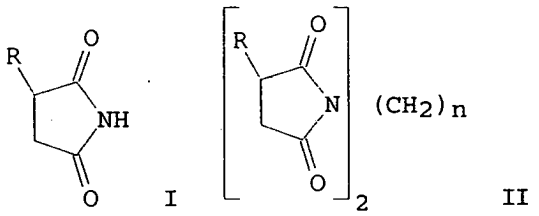

II

AB Title compds. Q-L1-P-L2-M-X-L3-A [Q = H, (hetero)aryl, alkyl, etc.; L1 = bond, alkylene, heteroalkylene, O, etc.; P = (hetero)aromatic, cycloalkylene, etc.; L2 = bond, alkylene, heteroalkylene, etc.; M = (hetero)aromatic, cycloalkylene, arylalkylene, etc.; X = divalent alkyl, (un)substituted-N; O, SO0-2; L3 = bond, alkylene, heteroalkylene, etc.; A = COOH, tetrazolyl, SO3H, PO3H2, etc.; I] are prepared For instance, (S)-3-[4-((4'-trifluoromethyl-1,1'-biphenyl-3-yl)methoxy)phenyl]hexan-4-ynoic acid (II) is prepared in 5 steps from (S)-3-(4-hydroxyphenyl)hexan-4-ynoic acid Me ester (preparation given), 4-(trifluoromethyl)phenylboronic acid and 3-bromobenzoic acid. II has an EC50 < 0.1 μM for human G protein-coupled receptor GPR40. I are useful for the treatment of type II diabetes.

L7 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN

| | |
|---|---|
| ACCESSION NUMBER: | 1988:486102 HCAPLUS |
| DOCUMENT NUMBER: | 109:86102 |
| TITLE: | Succinimide derivatives: chemical structure-anticonvulsant activity relation |
| AUTHOR(S): | Avetisyan, S. A.; Nesunts, N. S.; Buyukyan, N. S.; Mndzhoyan, O. L.; Dzhagatspanyan, I. A.; Nazaryan, I. M.; Akopyan, N. E. |
| CORPORATE SOURCE: | Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR |
| SOURCE: | Khimiko-Farmatsevticheskii Zhurnal (1988), 22(4), 433-8<br>CODEN: KHFZAN; ISSN: 0023-1134 |
| DOCUMENT TYPE: | Journal |
| LANGUAGE: | Russian |
| OTHER SOURCE(S): | CASREACT 109:86102 |

GI



I II

AB Succinimides (I, R = 4-isopropylphenyl, or 4-cyclopropylphenyl) were prepared by the conversion of the corresponding benzyl chlorides to aldehydes, Knoevenagel reaction with di-Et malonate, HCN addition to the resulting ylidene malonates, hydrolysis, amidation-hydrolysis and cyclization. Treatment of I (R = 4-isopropoxyphenyl) with N2H4 gave N,N'-bis(p-isopropoxyphenylsuccinimide) (II, R = p-isopropoxyphenyl, n = 0). Similarly, other II (R = p-isopropoxyphenyl and n = 1-10) were prepared Of all the compds. studied, I (R = 4-isopropylphenyl, or 4-cyclopropylphenyl) and II (R = 4-isopropoxyphenyl and n = 0, 1, 2, 3, or 4) were completely devoid of the ability to prevent nicotinic hyperkinesis and arecoline tremors, as shown in mice. However, I and pufamide showed anticonvulsant activity in relation to corazole and elec. shock. Antagonism to corazole was observed in 50% of the animals at 68 and 90 mg/kg for I (R = 4-isopropylphenyl and 4-cyclopropylphenyl), resp., and to elec. shock at doses 92 and 94 mg/kg. Structure-activity relations are discussed.

L7 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:102756 HCAPLUS
DOCUMENT NUMBER: 106:102756
TITLE: Aliphatic polyimides from phenylene bis(succinic anhydride) and bis(glutaric anhydride)
AUTHOR(S): Teshirogi, Takuma
CORPORATE SOURCE: Macromol. Res. Lab., Yamagata Univ., Yonezawa, 992, Japan
SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (1987), 25(1), 31-6
CODEN: JPACEC; ISSN: 0887-624X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB m- And p-derivs. of phenylene bis(succinic anhydride) and bis(glutaric anhydride) were obtained from 1,3- [77104-43-9] and 1,4-bis(β-cyano-β-carbethoxyvinyl)benzene [47375-13-3] with KCN or Meldrum's acid followed by hydrolysis with concentrated HCl and dehydration with Ac2O. Aliphatic polyimides were prepared from these anhydrides with 6 aromatic diamines through thermal ring closure of polyamic acids obtained by solution polymerization in AcNMe2, and thermal stability of these polyimides was examined by thermogravimetric anal.

=> d his

(FILE 'HOME' ENTERED AT 11:55:46 ON 06 SEP 2007)

FILE 'REGISTRY' ENTERED AT 11:56:07 ON 06 SEP 2007
L1 STRUCTURE UPLOADED
L2 0 S L1

10/569812 MMP - UPDATED SEARCH REG NUMBERS

L3 19 S L1 SSS FULL
E L3 1-19 RN

FILE 'HCAPLUS' ENTERED AT 11:58:43 ON 06 SEP 2007
L4 11 S L3

FILE 'STNGUIDE' ENTERED AT 11:59:09 ON 06 SEP 2007

FILE 'STNGUIDE' ENTERED AT 12:14:21 ON 06 SEP 2007

FILE 'REGISTRY' ENTERED AT 12:19:26 ON 06 SEP 2007
L5 9 S 865233-31-4/RN OR 372082-15-0/RN OR 331430-38-7/RN OR 300589
L6 10 S 107039-93-0/RN OR 107039-92-9/RN OR 101730-69-2/RN OR 91

FILE 'HCAPLUS' ENTERED AT 12:22:05 ON 06 SEP 2007
L7 3 S L5
L8 9 S L6

=> d l8 1-9 ibib abs

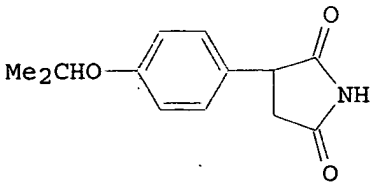
L8 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:102756 HCAPLUS
DOCUMENT NUMBER: 106:102756
TITLE: Aliphatic polyimides from phenylene bis(succinic anhydride) and bis(glutaric anhydride)
AUTHOR(S): Teshirogi, Takuma
CORPORATE SOURCE: Macromol. Res. Lab., Yamagata Univ., Yonezawa, 992, Japan
SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (1987), 25(1), 31-6
CODEN: JPACEC; ISSN: 0887-624X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB m- And p-derivs. of phenylene bis(succinic anhydride) and bis(glutaric anhydride) were obtained from 1,3- [77104-43-9] and 1,4-bis(β-cyano-β-carbethoxyvinyl)benzene [47375-13-3] with KCN or Meldrum's acid followed by hydrolysis with concentrated HCl and dehydration with Ac2O. Aliphatic polyimides were prepared from these anhydrides with 6 aromatic diamines through thermal ring closure of polyamic acids obtained by solution polymerization in AcNMe2, and thermal stability of these polyimides was examined by thermogravimetric anal.

L8 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:611103 HCAPLUS
DOCUMENT NUMBER: 91:211103
TITLE: Antispasmodic
INVENTOR(S): Mndzhoyan, O. L.; Avetisyan, S. A.; Akopyan, N. E.; Gerasimyan, D. A.
PATENT ASSIGNEE(S): Institute of Fine Organic Chemistry, Academy of Sciences, Armenian S.S.R., USSR
SOURCE: Ger. Offen., 26 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| DE 2759051 | A1 | 19790712 | DE 1977-2759051 | 19771230 |
| PRIORITY APPLN. INFO.: | | | DE 1977-2759051 A | 19771230 |

GI



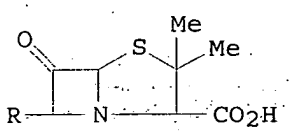
I

AB The phenylsuccinimide I, useful as a muscle relaxant in treating epilepsy with mild seizures, was prepared Thus, 4-Me2CHOC6H4CH(CO2H)CH2CO2H was warmed 2-3 h with Ac2O to give the corresponding succinic anhydride, which, in EtOAc, was treated with NH3-Et2O to give the 2 isomeric α-(4-isopropoxyphenyl)succinamidic acids. These were cyclized by heating to 200-20° with H2O removal to give 68-70% I. Tests of I with mice and rats gave ED50 86, 110, 77, and 90 mg/kg as a muscle relaxant in the korasol, strychnine, electroshock, and camphor tests, resp.

L8 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

| | |
|---|---|
| ACCESSION NUMBER: | 1977:439351 HCAPLUS |
| DOCUMENT NUMBER: | 87:39351 |
| TITLE: | Studies of semisynthetic penicillins. XI. The 6-aminopenicillane derivatives of p-alkoxyphenyl- and p-alkoxybenzylsuccinic acids. Ester penicillins |
| AUTHOR(S): | Mndzhoyan, Sh. L.; Manucharyan, I. Z.; Bil'bulyan, S. Z.; Ter-Zakharyan, Yu. Z.; Paronikyan, R. V.; Kazaryan, E. V.; Mndzhoyan, A. L. |
| CORPORATE SOURCE: | Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR |
| SOURCE: | Khimiko-Farmatsevticheskii Zhurnal (1977), 11(3), 49-53<br>CODEN: KHFZAN; ISSN: 0023-1134 |
| DOCUMENT TYPE: | Journal |
| LANGUAGE: | Russian |

GI



I, R=R1CH(CO2Me)CH2CONH
II, R=R1CH(CH2CO2Me)CONH

AB Penicillanic acid derivs. I and II [R1 = p-(C1-4 alkoxy)phenyl, p-(C1-4 alkoxy)benzyl] were obtained in 40-64% yields by treating 6-aminopenicillanic acid with the corresponding Me esters of succinic acid. I and II are effective bactericides.

L8 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

| | |
|---|---|
| ACCESSION NUMBER: | 1972:539560 HCAPLUS |

DOCUMENT NUMBER: 77:139560
TITLE: Ammonolysis of p-alkoxyphenylsuccinic acid anhydrides
AUTHOR(S): Avetisyan, S. A.; Midzhoyan, O. L.
CORPORATE SOURCE: Inst. Tonkoi Org. Khim: im. Mndzhoyana, Erevan, USSR
SOURCE: Armyanskii Khimicheskii Zhurnal (1972), 25(6), 512-17
CODEN: AYKZAN; ISSN: 0515-9628
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Ammonolysis of p-alkoxy-phenylsuccinic acid anhydrides gave an α-isomer, p-ROC6H4CH-(CONH2)CH2CO2H (R = Me, Et, Br), and larger amts. of a β-isomer, p-ROC6H4CH(CO2H)CH2CONH2, compared with the unsubstituted phenyl analogs which gave the opposite ratio of α- and β-isomers. The increase in the β-isomer with alkoxy substitution was explained by its resonance effect.

L8 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:514271 HCAPLUS
DOCUMENT NUMBER: 77:114271
TITLE: N-Substituted debenzo[b,f]thiepin-10-ylmethylamines and related intermediates
INVENTOR(S): Gosteli, Jacques
PATENT ASSIGNEE(S): Ciba-Geigy A.-G.
SOURCE: Ger. Offen., 85 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2165260 | A | 19720727 | DE 1971-2165260 | 19711229 |
| CH 550189 | A | 19740614 | CH 1971-243 | 19710108 |
| DD 95395 | A5 | 19730212 | DD 1971-159981 | 19711229 |
| ZA 7108705 | A | 19720927 | ZA 1971-8705 | 19711230 |
| US 3787444 | A | 19740122 | US 1971-214475 | 19711230 |
| NL 7118218 | A | 19720711 | NL 1971-18218 | 19711231 |
| AT 313904 | B | 19740311 | AT 1972-85 | 19720105 |
| BE 777752 | A1 | 19720706 | BE 1972-112594 | 19720106 |
| FR 2121665 | A5 | 19720825 | FR 1972-460 | 19720107 |
| HU 163513 | B | 19730927 | HU 1972-CI1199 | 19720107 |

PRIORITY APPLN. INFO.: CH 1971-243 A 19710108
GI For diagram(s), see printed CA Issue.
AB Antiinflammatory dibenzothiepinylmethylamines (I, R = CH2NH2, CH2NHMe, CH2NMe2, CH2NEt2, pyrrolidinomethyl, piperidinomethyl, piperazinomethyl; R1 and R2 = H, Cl, OMe) were prepared from I (R = CO2H) via the chloride and carboxamide, which was reduced with LiAlH4. I (R = CO2H) were also prepared, e.g. by condensing PhSH with o-ClC6H4CHO, followed by hippuric acid to give 2-phenyl-4-(o-phenylthiobenzylidine)-2-oxazolin-5-one, which was hydrolyzed to o-PhSC6H4CH2CO-CO2H, and subjected to acid cyclization to give I (R = CO2H, R1 = R2 = H).

L8 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:448636 HCAPLUS
DOCUMENT NUMBER: 75:48636
TITLE: Derivatives of dibasic carboxylic acids. XXXIV. N-Methyl-α-(p-alkoxyphenyl)succinimides
AUTHOR(S): Avetisyan, S. A.; Mndzhoyan, O. L.
CORPORATE SOURCE: Inst. Tonkoi Org. Khim., Erevan, USSR

SOURCE: Armyanskii Khimicheskii Zhurnal (1971), 24(2), 137-45
CODEN: AYKZAN; ISSN: 0515-9628
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Di-Et malonate was condensed with p-ROC6H4CHO in the presence of piperidine and AcOH to give 54-87% p-ROC6H4CH:C(CO2Et)2 (I, R = Me, Et, Pr, iso-Pr, Bu, iso-Bu, |amyl, isoamyl). Addition of HCN from aqueous-alc. NaCN to I gave a mixture of β-(p-alkoxyphenyl)-β-cyanopropionic (II), (p-alkoxyphenyl)succinamic (III), and (p-alkoxyphenyl)succinic acids. II are formed predominantly from I (R = Me, Et, Pr). I (R = Bu) yielded a mixture which gave (p-butoxyphenyl)succinimide and (p-butoxyphenyl)-β-acrylic acid on heating. Anhydrides of substituted succinic acids were obtained by treating the acids with Ac2O. The N-Me derivs. of III were obtained from the anhydrides and MeNH2 at room temperature N-Methyl(p-alkoxyphenyl)succinimides were obtained by heating III. The spasmolytic activities of III are lower than those of N-substituted (p-alkoxyphenyl)succinimides. Thus, N-methylation increases the spasmolytic activity of phenyl succinimides but reduces it in their p-alkoxy derivs.

L8 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1963:39491 HCAPLUS
DOCUMENT NUMBER: 58:39491
ORIGINAL REFERENCE NO.: 58:6665e-h,6666a-c
TITLE: Syntheses and physical chemical studies of substituted ethyl 2-cyano-2-propenoates and their derivatives. II. Preparation of substituted ethyl 2,3-dicyanopropanoates and the study of the mechanism of their hydrolysis. The corresponding succinic acids and some of their nitrogen derivatives
AUTHOR(S): Carrie, Robert
CORPORATE SOURCE: Univ. Rennes, Fr.
SOURCE: Bulletin de la Societe Scientifique de Bretagne (1962), 37, 29-58
CODEN: BSSBAS; ISSN: 0037-9581
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB RR'C:C(CN)CO2Et (10 g.) and 30 mL. EtOH were mixed at 95°, the solution boiled and 5 g. KCN in 15 mL. H2O added, the mixture refluxed and cooled, made acid with HCl, and diluted with 180 mL. H2O; an oil separated and was extracted with Et2O, dried, and NCCRR'CH(CN)CO2Et (II) obtained by distillation in vacuo. The following II were prepared (R, R', % yield, and m.p. or b.p. given): Ph, H, 90, m. (65°; Ph, Me, --, m. 77-8°; 4-O2NC6H4, Me, --, m. 76°; 4-Cl-C6H4, Me, --, b1 170°; 4-MeC6H4, Me, --, b1 171-3°; 4-MeOC6H4, Me, --, b3 198-200°. Other II prepared were: Ph, Ph; Ph, PhCH2; PhCH2, PhCH2. A dicyanopropanoate ester (5 g.) was dissolved in 70 g. 93% H2SO4, and the solution kept 6 h. at room temperature and poured onto crushed ice to give H2NOCCRR'CH(CONH2)CO2Et (III). III prepared in this manner were (R, R', and m.p. given): Ph, H, 252-4°; Ph, Me, 186-7°; 4-O2NC6H4, Me, 193-4°; 4-ClC6H4, Me, 207-8°; 4-MeC6H4, Me, 174°; 4-MeOC6H4, Me, 204°; Ph, Ph, 154°. Diamide ester (2 g.) was dissolved in a solution of 1 g. NaOH in 20 mL. 50% alc., the resulting solution diluted with 50 mL. H2O, and acidified with HCl to precipitate IV. IV prepared by this method were (R, R', and m.p. given): Ph, H, 218°; Ph, Me, 201-2°;

4-O2NC6H4, Me, 235-6°; 4-ClC6H4, Me, 213°; 4-MeC6H4, Me, 186°; 4-MeOC6H4, Me, 180-2°. This treatment of III (R = R' = Ph) gave the Na salt of the diamide acid, m. 247-50°, and acidification of the salt with HCl gave the diamide acid. m. 135-40°. NCCRR'CH2CN (V, R = Ph, R' = H) was prepared by treating I (R = Ph, R' = H) with KCN in alc. at boiling, yield 55-60%, m. 65°. II (R = 4-XC6H4, R' = Me) (10 g.) was saponified with N Na2CO3 in 200 mL. 50% H2O-alc. containing 5 g. KCN by refluxing 2-3 h. and the mixture was poured into 500-600 mL. H2O to give 4-XC6H4CMe-(CN)CH2CN (VI) (X, % yield, and m.p. given): NO2, 52-6, 139°; Cl, 75-80, 49°; H, 76-80, 29°; Me, 82-5, 49-50°; MeO, 81-4, 51-2°; OH, 78-81, 110-20°; NH2, 75-8, 69°. Similarly prepared was 2,2-diphenylsuccinonitrile, 85-90% yield, m. 112°. Various 2-methyl-2-arylsuccinamides were prepared by treatment of the succinonitriles with cold concentrated H2SO4 (aryl, % yield, and m.p. given): 4-O2NC6H4, 75, 184°; 4-ClC6H4, 40, 195°; Ph, 30, 145°; 4-MeC6H4, 40, 196°. Some of these succinonitriles were converted to the corresponding cyano amides when heated with 0.25N NaOH (50% H2O-alc.). Compds. prepared, where R = 4-XC6H4 and R' = Me, were (X and m.p. given): NO2, 296-8°; Cl,247-8°; H, 258-60°; 255-6°; MeO, 249-50°; NH2, 260°. The reaction mixture, after separation of amide nitrile, was acidified to give IV (R = p-XC6H4, R' = Me) (X and m.p. given): NO2, 159°; Cl, 152°; H, 81°; Me, 102°; MeO, 108°; NH2, 154°. Some amide acids, RR'C(CONH2)CH2CO2H, were isolated: X (as above) = NO2, Cl, and MeO, in yields of 6-7, 7-8, and 11-12%, resp. Alkaline hydrolysis of some succinonitriles gave the corresponding succinic acids, HO2CCRR'CH2CO2H (VII) (R, R', % yield, and m.p. given): Ph, H, 78-88, 167°; Ph, Ph, 88-9, 107-9°; VII (R' = Me, R = 4-XC6H4) (X given): 85, --; Cl, 93, 185°; Me, 85, 187-8°; MeO, 95, 185°; OH, 90, 196-7°; NO2, 55, 142°; NH2, 80, decomposed 216-18°. VII were treated with MeOH and concentrated H2SO4 to form the mono-and di-Me esters (R' = Me, R = 4-XC6H4) (X, yield, and m.p. of half ester, yield of diester given): Cl, 66, 90-1°, 24; Me, 60, 82-3°, 22; Me, 68, 91-2°, 27. The acid group of the monoester was on the substituted C. The half ester of α-methyl-α-(4-methylphenyl)succinic acid gave the di-Me ester after treatment with Me2SO4, m. 38°. Half esters where the acid group was on the unsubstituted C were prepared by treatment of the diester with NaOH in alc. Compds. prepared were (X as above, % yield, and m.p. given): Cl, 52, 80°; MeO, 58, 105°; Me, 46, 105°.

L8 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN

| | |
|---|---|
| ACCESSION NUMBER: | 1961:59332 HCAPLUS |
| DOCUMENT NUMBER: | 55:59332 |
| ORIGINAL REFERENCE NO.: | 55:11353e-h |
| TITLE: | Careful hydrolysis of some substituted 2-phenyl-2-methyl-3-carbethoxysuccinonitriles |
| AUTHOR(S): | Carrie, Robert |
| CORPORATE SOURCE: | Fac. sci. Rennes, Fr. |
| SOURCE: | Compt. rend. (1960), 251, 2981-3 |
| DOCUMENT TYPE: | Journal |
| LANGUAGE: | Unavailable |

AB When X-substituted derivs. of title compound, generally 2-methyl-2-[4-(X-substituted)-phenyl]-3-carbethoxysuccinonitrile (I), were hydrolyzed with hot N Na2CO3 in H2O-EtOH, 1st the carbethoxy group was hydrolyzed, then the unstable carboxy group eliminated to give 2-methyl-2-[4-(X-

substituted)phenyl]succinonitrile (II). From I the following II were obtained (X, m.p., % yield, and reaction time in hrs. given): NO2, 139°, 52-6, 2.5; Cl, 49°, 75-80, 3; H, 29°, 76-80, 3; Me, 49-50°, 83-5, 3; OMe, 51-2°, 81-4, 2.5; OH, 119-120°, 78-81, 3; NH2, 69°, 75-81, 2. I hydrolyzed with N/2 NaOH by boiling 0.5 hr. in H2O-EtOH gave 25% 2-methyl-2-[4-(X-substituted)-phenyl]succino-1-nitrile-4-amide (III) or 2-methyl-2-[4-(X-substituted)-phenyl] succino-4-nitrile-1-amide (IV) and 45% 2-methyl-2-[4-(X-substituted)-phenyl]-succinimide (V). III or IV prepared were (X and m.p. given): NO2, 296-8°; Cl, 247-8°; H, 258-60°; Me, 255-6°; OMe, 249-50° (with 0.5H2O); NH2, 260° (with 0.5H2O). V prepared were: NO2, 159°; Cl, 152°; H, 81°; Me, 102°; OMe, 108°; NH2, 154°. II hydrolyzed with N NaOH in H2O-EtOH by boiling 1 hr. gave 26-30% V, but also 2-methyl-2-[4-(X-substituted)-phenyl] succinic 4-acid-1-amide (VI) and 2-methyl-2-[4-(X-substituted)-phenyl]succinic acid (VII). II gave the following V (X, % yield, and m.p. given): NO2, 29, 180°; Cl, 16, 197-8°; OMe, 33, 189°. I treated with cold 93% H2SO4 6 hrs. gave 2-methyl-2-[4-(X-substituted)-phenyl]-3-carbethoxysuccindiamide (VIII) and 2-methyl-2-[4-(X-substituted)-phenyl]-3-carbamoylsuccinimide (IX). I gave the following VIII: NO2, 193-4°; Cl, 207-8°; Me, 174°; OMe, 204°. The following IX: NO2, 235-6°; Cl, 213°; Me, 186°; OMe, 180-2°.
It was found that the electronic influence of X-substitution on the reactivity of I or II was weak.

L8 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1958:50475 HCAPLUS
DOCUMENT NUMBER: 52:50475
ORIGINAL REFERENCE NO.: 52:9044c-f
TITLE: α,α-Bis(p-methoxyphenyl)succinic acid
AUTHOR(S): Salmon-Legagneur, Francois; Bobin, Claude
SOURCE: Compt. rend. (1957), 245, 1810-13
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 52:50475
AB cf. C.A. 33, 62854. [Y throughout this abstract = p-MeOC6H4.] The procedure previously used for the preparation of HO2CCPh2CH2CO2H has made possible the preparation of a series of α, α-di-Ph acids of the type HO2CCPh2(CH2)nCO2H, where n = 1 to 11. Y2CHCN (I), m. 154°, was prepared by reaction of YCHO with HCN and condensation of the YCH(OH)CN with PhOMe. I, in C6H6, with NaNH2 and BrCH2CO2Et gave NCCY2CH2CO2Et, m. 78°; Me ester analog, m. 67-8°. With KOH was obtained the free acid, m. 185°, which, with 2:1 HCl and HOAc gave HO2CCY2CH2CO2H, m. 212-13°, forming the anhydride, m. 86-7°, with Ac2O. RO2CCY2CH2CO2R' (R, R', and m.p. given) were similarly prepared: H, Me, 128-30°; H, Et, 129°; Me, H, 122°; Et, H, 104°, Me, Me, 81°; Et, Et, 101°; Me, Et, 78°; Et, Me, 86-7°. Amido derivs. of the type H2NOCCPh2CH2CO2R were obtained by hydration in the cold with 85% H2SO4 of NCCPh2CH2CO2R (R and m.p. given): H, 156°; Me, 130-1°; Et, 115°.
α,α-Bis-p-methoxyphenylsuccinimide, m. 198°, was obtained from one of the ester amides with dilute NaOH. This reaction shows that the two carboxyls must be very close, since cyclization is accomplished under conditions usually employed for the hydrolysis of cyclic imides.

=> fil stng

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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 39.16 | 328.61 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -9.36 | -17.94 |

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| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
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| CA SUBSCRIBER PRICE | 0.00 | -17.94 |

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FILE LAST UPDATED: 5 Sep 2007 (20070905/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L9 0 US20060-235074/PN
(US20060235074/PN)

=> s US200600235074/pn
L10 1 US200600235074/PN
(US2006235074/PN)

=> d l10 rn

L10 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN

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RN 845786-15-4P
RN 845786-16-5P
RN 845786-17-6P
RN 845786-18-7P
RN 845786-19-8P
RN 845786-20-1P
RN 845786-21-2P
RN 845786-22-3P
RN 845786-23-4P
RN 845786-24-5P
RN 845786-25-6P
RN 845786-26-7P
RN 845786-27-8P
RN 107-82-4
RN 156-38-7
RN 1647-26-3
RN 1878-68-8
RN 5292-43-3
RN 5437-45-6
RN 14199-15-6
RN 18162-48-6
RN 27727-37-3
RN 98946-18-0
RN 126747-14-6
RN 33155-58-7P
RN 55784-09-3P
RN 127152-98-1P
RN 335200-36-7P
RN 845785-97-9P
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RN 845786-00-7P
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RN 845786-08-5P
RN 845786-09-6P
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RN 845786-12-1P
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| | SINCE FILE ENTRY | TOTAL SESSION |
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| FULL ESTIMATED COST | 5.54 | 334.51 |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| | SINCE FILE ENTRY | TOTAL SESSION |
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| CA SUBSCRIBER PRICE | 0.00 | -17.94 |

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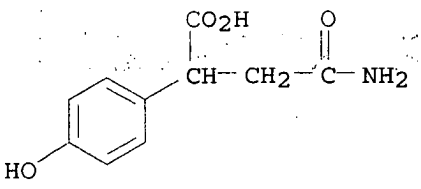
L11 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-14-3 REGISTRY
ED Entered STN: 17 Mar 2005
CN Benzeneacetic acid, α-(2-amino-2-oxoethyl)-4-hydroxy- (9CI) (CA INDEX NAME)
MF C10 H11 N O4
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

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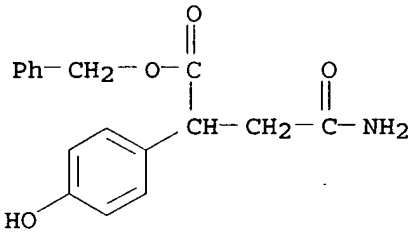
L11 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-13-2 REGISTRY
ED Entered STN: 17 Mar 2005
CN Benzeneacetic acid, α-(2-amino-2-oxoethyl)-4-hydroxy-, phenylmethyl ester (9CI) (CA INDEX NAME)
MF C17 H17 N O4
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



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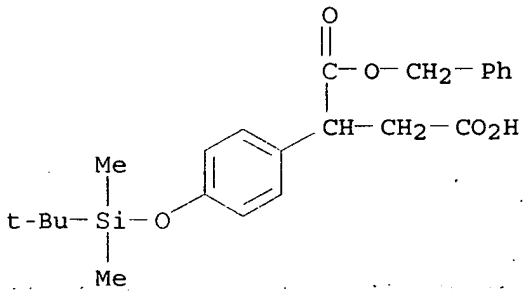
L11 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-12-1 REGISTRY
ED Entered STN: 17 Mar 2005
CN Butanedioic acid, [4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]phenyl]-, 1-(phenylmethyl) ester (9CI) (CA INDEX NAME)
MF C23 H30 O5 Si
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



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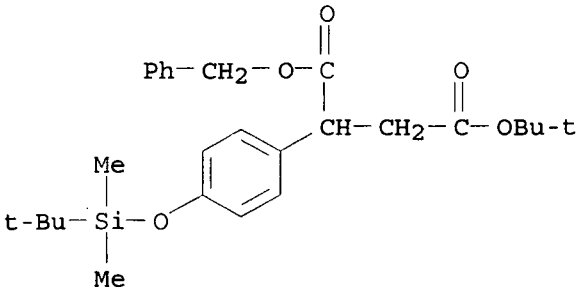
L11 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-11-0 REGISTRY
ED Entered STN: 17 Mar 2005
CN Butanedioic acid, [4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]phenyl]-,

4-(1,1-dimethylethyl) 1-(phenylmethyl) ester (9CI) (CA INDEX NAME)
MF C27 H38 O5 Si
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



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L11 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-10-9 REGISTRY
ED Entered STN: 17 Mar 2005
CN Butanedioic acid, [4-(3-methylbutoxy)phenyl]-, 4-(1,1-dimethylethyl) 1-methyl ester (9CI) (CA INDEX NAME)
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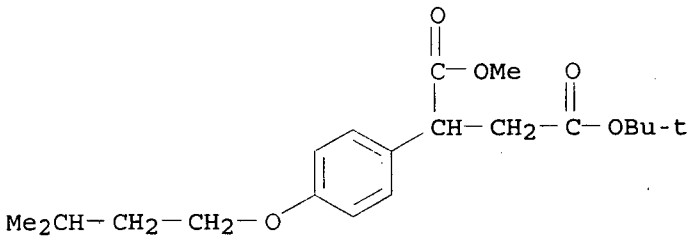
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



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L11 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-09-6 REGISTRY
ED Entered STN: 17 Mar 2005
CN Benzeneacetic acid, 4-(3-methylbutoxy)-, methyl ester (9CI) (CA INDEX NAME)
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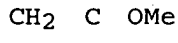
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL





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L11 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN
RN 845786-08-5 REGISTRY
ED Entered STN: 17 Mar 2005
CN Butanedioic acid, [4-(3-methylbutoxy)phenyl]-, 4-(phenylmethyl) ester (9CI) (CA INDEX NAME)
MF C22 H26 O5
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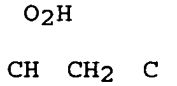
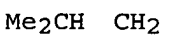
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL





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| NEWS 7 | MAY 21 | CA/CAplus enhanced with additional kind codes for German patents |
| NEWS 8 | MAY 22 | CA/CAplus enhanced with IPC reclassification in Japanese patents |
| NEWS 9 | JUN 27 | CA/CAplus enhanced with pre-1967 CAS Registry Numbers |
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| NEWS 12 | JUL 02 | LEMBASE coverage updated |
| NEWS 13 | JUL 02 | LMEDLINE coverage updated |
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| NEWS 15 | JUL 02 | CHEMCATS accession numbers revised |
| NEWS 16 | JUL 02 | CA/CAplus enhanced with utility model patents from China |
| NEWS 17 | JUL 16 | CAplus enhanced with French and German abstracts |
| NEWS 18 | JUL 18 | CA/CAplus patent coverage enhanced |
| NEWS 19 | JUL 26 | USPATFULL/USPAT2 enhanced with IPC reclassification |
| NEWS 20 | JUL 30 | USGENE now available on STN |
| NEWS 21 | AUG 06 | CAS REGISTRY enhanced with new experimental property tags |
| NEWS 22 | AUG 06 | BEILSTEIN updated with new compounds |
| NEWS 23 | AUG 06 | FSTA enhanced with new thesaurus edition |
| NEWS 24 | AUG 13 | CA/CAplus enhanced with additional kind codes for granted patents |
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| NEWS 27 | AUG 27 | USPATOLD now available on STN |
| NEWS 28 | AUG 28 | CAS REGISTRY enhanced with additional experimental spectral property data |

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=> s 91642-28-3/rn or 72058-22-1/rn or 38499-27-3/rn or 38499-26-2/rn or 38499-25-1/rn or 32857-82-2/rn
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1 38499-26-2/RN
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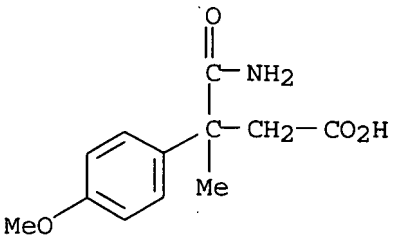
1 32857-82-2/RN
L1 6 91642-28-3/RN OR 72058-22-1/RN OR 38499-27-3/RN OR 38499-26-2/RN OR 38499-25-1/RN OR 32857-82-2/RN

=> d l1 1-6 ide

L1 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN

RN 91642-28-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Succinamic acid, 3-(p-methoxyphenyl)-3-methyl- (6CI, 7CI) (CA INDEX NAME)
MF C12 H15 N O4
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)



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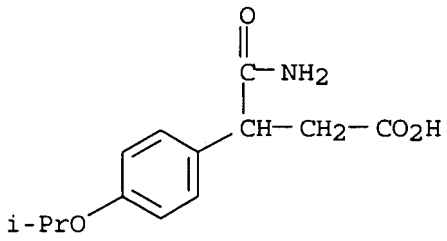
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 72058-22-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-(1-methylethoxy)- (9CI)
(CA INDEX NAME)
MF C13 H17 N O4
LC STN Files: CA, CAPLUS



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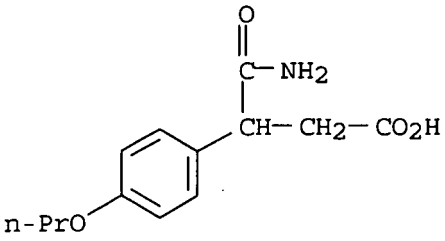
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 38499-27-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-propoxy- (9CI) (CA INDEX
NAME)
MF C13 H17 N O4
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

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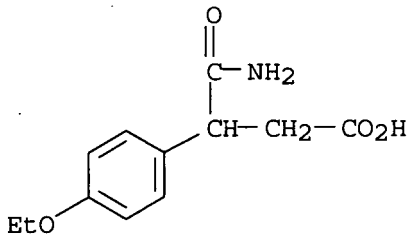
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 38499-26-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-ethoxy- (9CI) (CA INDEX NAME)
MF C12 H15 N O4
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

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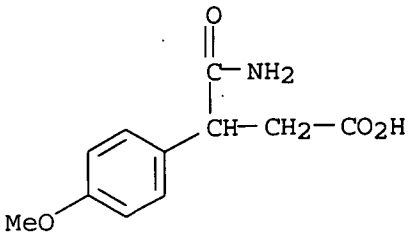
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 38499-25-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenepropanoic acid, β-(aminocarbonyl)-4-methoxy- (9CI) (CA INDEX NAME)
MF C11 H13 N O4
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS
(*File contains numerically searchable property data)



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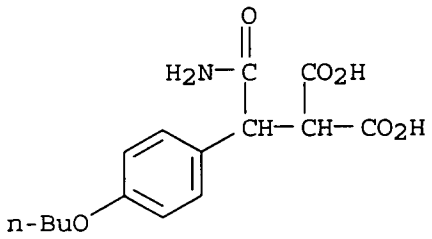
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 32857-82-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Malonic acid, (p-butoxy-α-carbamoylbenzyl)- (8CI) (CA INDEX NAME)
MF C15 H19 N O6
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



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FILE 'HCAPLUS' ENTERED AT 13:20:54 ON 06 SEP 2007

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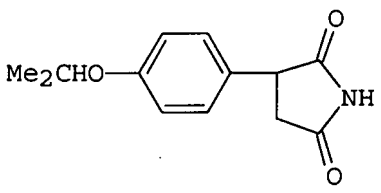
L2 6 L1

=> d l2 1-6 ibib abs

L2 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:611103 HCAPLUS
DOCUMENT NUMBER: 91:211103
TITLE: Antispasmodic
INVENTOR(S): Mndzhoyan, O. L.; Avetisyan, S. A.; Akopyan, N. E.; Gerasimyan, D. A.
PATENT ASSIGNEE(S): Institute of Fine Organic Chemistry, Academy of Sciences, Armenian S.S.R., USSR
SOURCE: Ger. Offen., 26 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 2759051 | A1 | 19790712 | DE 1977-2759051 | 19771230 |
| PRIORITY APPLN. INFO.: | | | DE 1977-2759051 A | 19771230 |

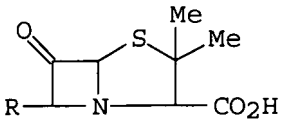
GI




I

AB The phenylsuccinimide I, useful as a muscle relaxant in treating epilepsy with mild seizures, was prepared Thus, 4-Me2CHOC6H4CH(CO2H)CH2CO2H was warmed 2-3 h with Ac2O to give the corresponding succinic anhydride, which, in EtOAc, was treated with NH3-Et2O to give the 2 isomeric α-(4-isopropoxyphenyl)succinamidic acids. These were cyclized by heating to 200-20° with H2O removal to give 68-70% I. Tests of I with mice and rats gave ED50 86, 110, 77, and 90 mg/kg as a muscle relaxant in the korasol, strychnine, electroshock, and camphor tests, resp.

L2 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1977:439351 HCAPLUS
DOCUMENT NUMBER: 87:39351
TITLE: Studies of semisynthetic penicillins. XI. The 6-aminopenicillane derivatives of p-alkoxyphenyl- and p-alkoxybenzylsuccinic acids. Ester penicillins
AUTHOR(S): Mndzhoyan, Sh. L.; Manucharyan, I. Z.; Bil'bulyan, S. Z.; Ter-Zakharyan, Yu. Z.; Paronikyan, R. V.; Kazaryan, E. V.; Mndzhoyan, A. L.
CORPORATE SOURCE: Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1977), 11(3), 49-53
CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI



I, R=R1CH(CO2Me)CH2CONH
II, R=R1CH(CH2CO2Me)CONH

AB Penicillanic acid derivs. I and II [R1 = p-(C1-4 alkoxy)phenyl, p-(C1-4 alkoxy)benzyl] were obtained in 40-64% yields by treating 6-aminopenicillanic acid with the corresponding Me esters of succinic acid. I and II are effective bactericides.

L2 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:539560 HCAPLUS
DOCUMENT NUMBER: 77:139560
TITLE: Ammonolysis of p-alkoxyphenylsuccinic acid anhydrides
AUTHOR(S): Avetisyan, S. A.; Midzhoyan, O. L.
CORPORATE SOURCE: Inst. Tonkoi Org. Khim. im. Mndzhoyana, Erevan, USSR
SOURCE: Armyanskii Khimicheskii Zhurnal (1972), 25(6), 512-17
CODEN: AYKZAN; ISSN: 0515-9628
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Ammonolysis of p-alkoxy-phenylsuccinic acid anhydrides gave an α-isomer, p-ROC6H4CH-(CONH2)CH2CO2H (R = Me, Et, Br), and larger amts. of a β-isomer, p-ROC6H4CH(CO2H)CH2CONH2, compared with the unsubstituted phenyl analogs which gave the opposite ratio of α- and β-isomers. The increase in the β-isomer with alkoxy substitution was explained by its resonance effect.

L2 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:448636 HCAPLUS
DOCUMENT NUMBER: 75:48636
TITLE: Derivatives of dibasic carboxylic acids. XXXIV. N-Methyl-α-(p-alkoxyphenyl)succinimides
AUTHOR(S): Avetisyan, S. A.; Mndzhoyan, O. L.
CORPORATE SOURCE: Inst. Tonkoi Org. Khim., Erevan, USSR
SOURCE: Armyanskii Khimicheskii Zhurnal (1971), 24(2), 137-45
CODEN: AYKZAN; ISSN: 0515-9628
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Di-Et malonate was condensed with p-ROC6H4CHO in the presence of piperidine and AcOH to give 54-87% p-ROC6H4CH:C(CO2Et)2 (I, R = Me, Et, Pr, iso-Pr, Bu, iso-Bu, amyl, isoamyl). Addition of HCN from aqueous-alc. NaCN to I gave a mixture of β-(p-alkoxyphenyl)-β-cyanopropionic (II), (p-alkoxyphenyl)succinamic (III), and (p-alkoxyphenyl)succinic acids. II are formed predominantly from I (R = Me, Et, Pr). I (R = Bu) yielded a mixture which gave (p-butoxyphenyl)succinimide and (p-butoxyphenyl)-β-acrylic acid on heating. Anhydrides of substituted succinic acids were obtained by treating the acids with Ac2O. The N-Me derivs. of III were obtained from the anhydrides and MeNH2 at room temperature N-Methyl(p-alkoxyphenyl)succinimides were obtained by heating III. The spasmolytic activities of III are lower than those of N-substituted (p-alkoxyphenyl)succinimides. Thus, N-methylation increases the spasmolytic activity of phenyl succinimides but reduces it in their p-alkoxy derivs.

L2 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1963:39491 HCAPLUS
DOCUMENT NUMBER: 58:39491
ORIGINAL REFERENCE NO.: 58:6665e-h,6666a-c
TITLE: Syntheses and physical chemical studies of substituted ethyl 2-cyano-2-propenoates and their derivatives. II. Preparation of substituted ethyl 2,3-dicyanopropanoates and the study of the mechanism of their hydrolysis. The corresponding succinic acids and some of their nitrogen derivatives
AUTHOR(S): Carrie, Robert
CORPORATE SOURCE: Univ. Rennes, Fr.
SOURCE: Bulletin de la Societe Scientifique de Bretagne (1962), 37, 29-58
CODEN: BSSBAS; ISSN: 0037-9581
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB RR'C:C(CN)CO2Et (10 g.) and 30 mL. EtOH were mixed at 95°, the solution boiled and 5 g. KCN in 15 mL. H2O added, the mixture refluxed and cooled, made acid with HCl, and diluted with 180 mL. H2O; an oil separated and was extracted with Et2O, dried, and NCCRR'CH(CN)CO2Et (II) obtained by distillation in vacuo. The following II were prepared (R, R', % yield, and m.p. or b.p. given): Ph, H, 90, m. (65°; Ph, Me, --, m. 77-8°; 4-O2NC6H4, Me, --, m. 76°; 4-Cl-C6H4, Me, --, b1 170°; 4-MeC6H4, Me, --, b1 171-3°; 4-MeOC6H4, Me, --, b3 198-200°. Other II prepared were: Ph, Ph; Ph, PhCH2; PhCH2, PhCH2. A dicyanopropanoate ester (5 g.) was dissolved in 70 g. 93% H2SO4, and the solution kept 6 h. at room temperature and poured onto crushed ice to give H2NOCCRR'CH(CONH2)CO2Et (III). III prepared in this manner were (R, R', and m.p. given): Ph, H,

252-4°; Ph, Me, 186-7°; 4-O2NC6H4, Me, 193-4°; 4-ClC6H4, Me, 207-8°; 4-MeC6H4, Me, 174°; 4-MeOC6H4, Me, 204°; Ph, Ph, 154°. Diamide ester (2 g.) was dissolved in a solution of 1 g. NaOH in 20 mL. 50% alc., the resulting solution diluted with 50 mL. H2O, and acidified with HCl to precipitate IV. IV prepared by this method were (R, R', and m.p. given): Ph, H, 218°; Ph, Me, 201-2°; 4-O2NC6H4, Me, 235-6°; 4-ClC6H4, Me, 213°; 4-MeC6H4, Me, 186°; 4-MeOC6H4, Me, 180-2°. This treatment of III (R = R' = Ph) gave the Na salt of the diamide acid, m. 247-50°, and acidification of the salt with HCl gave the diamide acid. m. 135-40°. NCCRR'CH2CN (V, R = Ph, R' = H) was prepared by treating I (R = Ph, R' = H) with KCN in alc. at boiling, yield 55-60%, m. 65°. II (R = 4-XC6H4, R' = Me) (10 g.) was saponified with N Na2CO3 in 200 mL. 50% H2O-alc. containing 5 g. KCN by refluxing 2-3 h. and the mixture was poured into 500-600 mL. H2O to give 4-XC6H4CMe-(CN)CH2CN (VI) (X, % yield, and m.p. given): NO2, 52-6, 139°; Cl, 75-80, 49°; H, 76-80, 29°; Me, 82-5, 49-50°; MeO, 81-4, 51-2°; OH, 78-81, 110-20°; NH2, 75-8, 69°. Similarly prepared was 2,2-diphenylsuccinonitrile, 85-90% yield, m. 112°. Various 2-methyl-2-arylsuccinamides were prepared by treatment of the succinonitriles with cold concentrated H2SO4 (aryl, % yield, and m.p. given): 4-O2NC6H4, 75, 184°; 4-ClC6H4, 40, 195°; Ph, 30, 145°; 4-MeC6H4, 40, 196°. Some of these succinonitriles were converted to the corresponding cyano amides when heated with 0.25N NaOH (50% H2O-alc.). Compds. prepared, where R = 4-XC6H4 and R' = Me, were (X and m.p. given): NO2, 296-8°; Cl,247-8°; H, 258-60°; 255-6°; MeO, 249-50°; NH2, 260°. The reaction mixture, after separation of amide nitrile, was acidified to give IV (R = p-XC6H4, R' = Me) (X and m.p. given): NO2, 159°; Cl, 152°; H, 81°; Me, 102°; MeO, 108°; NH2, 154°. Some amide acids, RR'C(CONH2)CH2CO2H, were isolated: X (as above) = NO2, Cl, and MeO, in yields of 6-7, 7-8, and 11-12%, resp. Alkaline hydrolysis of some succinonitriles gave the corresponding succinic acids, HO2CCRR'CH2CO2H (VII) (R, R', % yield, and m.p. given): Ph, H, 78-88, 167°; Ph, Ph, 88-9, 107-9°; VII (R' = Me, R = 4-XC6H4) (X given): 85, --; Cl, 93, 185°; Me, 85, 187-8°; MeO, 95, 185°; OH, 90, 196-7°; NO2, 55, 142°; NH2, 80, decomposed 216-18°. VII were treated with MeOH and concentrated H2SO4 to form the mono-and di-Me esters (R' = Me, R = 4-XC6H4) (X, yield, and m.p. of half ester, yield of diester given): Cl, 66, 90-1°, 24; Me, 60, 82-3°, 22; Me, 68, 91-2°, 27. The acid group of the monoester was on the substituted C. The half ester of α-methyl-α-(4-methylphenyl)succinic acid gave the di-Me ester after treatment with Me2SO4, m. 38°. Half esters where the acid group was on the unsubstituted C were prepared by treatment of the diester with NaOH in alc. Compds. prepared were (X as above, % yield, and m.p. given): Cl, 52, 80°; MeO, 58, 105°; Me, 46, 105°.

L2 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1961:59332 HCAPLUS
DOCUMENT NUMBER: 55:59332
ORIGINAL REFERENCE NO.: 55:11353e-h
TITLE: Careful hydrolysis of some substituted 2-phenyl-2-methyl-3-carbethoxysuccinonitriles

AUTHOR(S): Carrie, Robert
CORPORATE SOURCE: Fac. sci. Rennes, Fr.
SOURCE: Compt. rend. (1960), 251, 2981-3
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB When X-substituted derivs. of title compound, generally 2-methyl-2-[4-(X-substituted)-phenyl]-3-carbethoxysuccinonitrile (I), were hydrolyzed with hot N Na2CO3 in H2O-EtOH, 1st the carbethoxy group was hydrolyzed, then the unstable carboxy group eliminated to give 2-methyl-2-[4-(X-substituted)phenyl]succinonitrile (II). From I the following II were obtained (X, m.p., % yield, and reaction time in hrs. given): NO2, 139°, 52-6, 2.5; Cl, 49°, 75-80, 3; H, 29°, 76-80, 3; Me, 49-50°, 83-5, 3; OMe, 51-2°, 81-4, 2.5; OH, 119-120°, 78-81, 3; NH2, 69°, 75-81, 2. I hydrolyzed with N/2 NaOH by boiling 0.5 hr. in H2O-EtOH gave 25% 2-methyl-2-[4-(X-substituted)-phenyl]succino-1-nitrile-4-amide (III) or 2-methyl-2-[4-(X-substituted)-phenyl] succino-4-nitrile-1-amide (IV) and 45% 2-methyl-2-[4-(X-substituted)-phenyl]-succinimide (V). III or IV prepared were (X and m.p. given): NO2, 296-8°; Cl, 247-8°; H, 258-60°; Me, 255-6°; OMe, 249-50° (with 0.5H2O); NH2, 260° (with 0.5H2O). V prepared were: NO2, 159°; Cl, 152°; H, 81°; Me, 102°; OMe, 108°; NH2, 154°. II hydrolyzed with N NaOH in H2O-EtOH by boiling 1 hr. gave 26-30% V, but also 2-methyl-2-[4-(X-substituted)-phenyl] succinic 4-acid-1-amide (VI) and 2-methyl-2-[4-(X-substituted)-phenyl]succinic acid (VII). II gave the following V (X, % yield, and m.p. given): NO2, 29, 180°; Cl, 16, 197-8°; OMe, 33, 189°. I treated with cold 93% H2SO4 6 hrs. gave 2-methyl-2-[4-(X-substituted)-phenyl]-3-carbethoxysuccindiamide (VIII) and 2-methyl-2-[4-(X-substituted)-phenyl]-3-carbamoylsuccinimide (IX). I gave the following VIII: NO2, 193-4°; Cl, 207-8°; Me, 174°; OMe, 204°. The following IX: NO2, 235-6°; Cl, 213°; Me, 186°; OMe, 180-2°. It was found that the electronic influence of X-substitution on the reactivity of I or II was weak.

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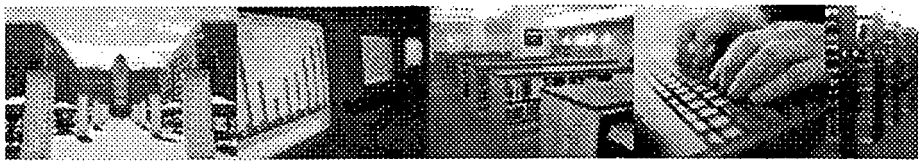



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**Employee number:** 82608
**Art Unit:** GROUP ART UNIT 1621
**Office Location:** REM 05C25
**Phone Number:** (571)272-9930
**Application Number:** 10/569812

**Author (if known):** Teshirogi, Takuma
**Article or Chapter Title:** Aliphatic polyimides from phenylene bis(succinic anhydride) and bis(glutaric anhydride)
**Journal or Book Title:** Journal of Polymer Science, Part A: Polymer Chemistry
**Volume and issue (for articles):** 25(1)
**Year of Publication:** 1987
**Page numbers:** 31-6
**Other Identifying Information (Edition, ISSN, ISBN, Citation, etc.):** CODEN: JPACEC; ISSN: 0887-624X CORPORATE SOURCE: Macromol. Res. Lab., Yamagata Univ., Yonezawa, 992, Japan
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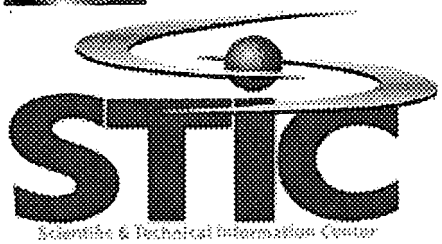


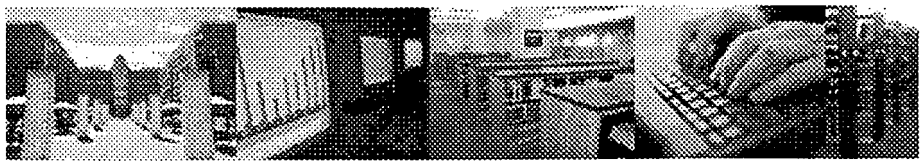



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**Employee number:** 82608
**Art Unit:** GROUP ART UNIT 1621
**Office Location:** REM 05C25
**Phone Number:** (571)272-9930
**Application Number:** 10/569812

**Author (if known):** Avetisyan, S. A.; Midzhoyan, O. L.
**Article or Chapter Title:** Ammonolysis of p-alkoxyphenylsuccinic acid anhydrides
**Journal or Book Title:** Armyanskii Khimicheskii Zhurnal
**Volume and issue (for articles):** 25 (6)
**Year of Publication:** 1972
**Page numbers:** 51-17
**Other Identifying Information (Edition, ISSN, ISBN, Citation, etc.):** TITLE: Ammonolysis of p-alkoxyphenylsuccinic acid anhydrides AUTHOR(S): Avetisyan, S. A.; Midzhoyan, O. L. CORPORATE SOURCE: Inst. Tonkoi Org. Khim. im. Mndzhoyana, Erevan, USSR SOURCE: Armyanskii Khimicheskii Zhurnal (1972), 25(6), 512-17 CODEN: AYKZAN; ISSN: 0515-9628 DOCUMENT TYPE: Journal LANGUAGE: Russian
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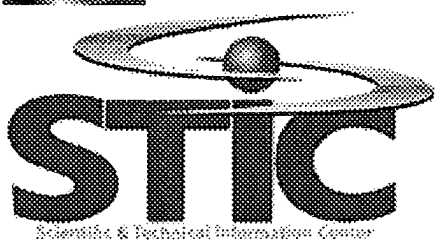


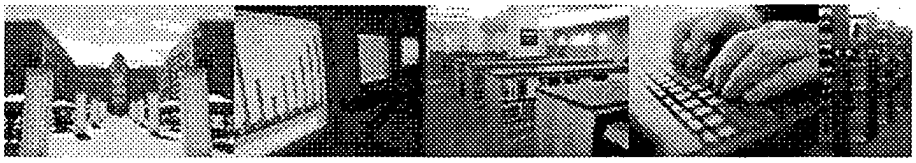



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**Email address:** MARIALOUISA.LAO@USPTO.GOV
**Employee number:** 82608
**Art Unit:** GROUP ART UNIT 1621
**Office Location:** REM 05C25
**Phone Number:** (571)272-9930
**Application Number:** 10/569812

**Author (if known):** Avetisyan, S. A.; Midzhoyan, O. L.
**Article or Chapter Title:** Derivatives of dibasic carboxylic acids. XXXIV.
**Journal or Book Title:** Armyanskii Khimicheskii Zhurnal
**Volume and issue (for articles):** 24 (2)
**Year of Publication:** 1971
**Page numbers:** 137-45
**Other Identifying Information (Edition, ISSN, ISBN, Citation, etc.):** ACCESSION NUMBER: 1971:448636 HCAPLUS <> DOCUMENT NUMBER: 75:48636 TITLE: Derivatives of dibasic carboxylic acids. XXXIV. N-Methyl-a-(p-alkoxyphenyl) succinimides AUTHOR(S): Avetisyan, S. A.; Mndzhoyan, O. L. CORPORATE SOURCE: Inst. Tonkoi Org. Khim., Erevan, USSR SOURCE: Armyanskii Khimicheskii Zhurnal (1971), 24(2), 137-45 CODEN: AYKZAN; ISSN: 0515-9628 DOCUMENT TYPE: Journal LANGUAGE: Russian
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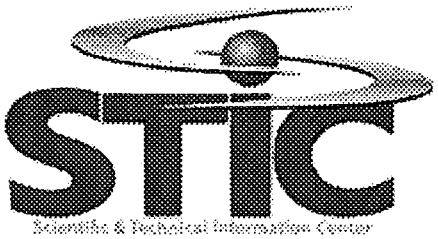


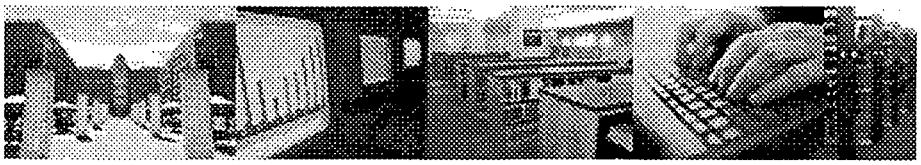



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**Your name:** MARIALOUISA LAO
**Email address:** MARIALOUISA.LAO@USPTO.GOV
**Employee number:** 82608
**Art Unit:** GROUP ART UNIT 1621
**Office Location:** REM 05C25
**Phone Number:** (571)272-9930
**Application Number:** 10/569812

**Author (if known):** Carrie, Robert
**Article or Chapter Title:** Syntheses and physical chemical studies of substituted
**Journal or Book Title:** Bulletin de la Societe Scientifique de Bretagne
**Volume and issue (for articles):** 37
**Year of Publication:** 1962
**Page numbers:** 29-58
**Other Identifying Information (Edition, ISSN, ISBN, Citation, etc.):** ACCESSION NUMBER: 1963:39491 HCAPLUS <> DOCUMENT NUMBER: 58:39491 ORIGINAL REFERENCE NO.: 58:6665e-h,6666a-c TITLE: Syntheses and physical chemical studies of substituted ethyl 2-cyano-2-propenoates and their derivatives. II. Preparation of substituted ethyl 2,3-dicyanopropanoates and the study of the mechanism of their hydrolysis. The corresponding succinic acids and some of their nitrogen derivatives AUTHOR(S): Carrie, Robert CORPORATE SOURCE: Univ. Rennes, Fr. SOURCE: Bulletin de la Societe Scientifique de Bretagne (1962), 37, 29-58 CODEN: BSSBAS; ISSN: 0037-9581 DOCUMENT TYPE: Journal LANGUAGE: Unavailable
**Format preferred for results:**

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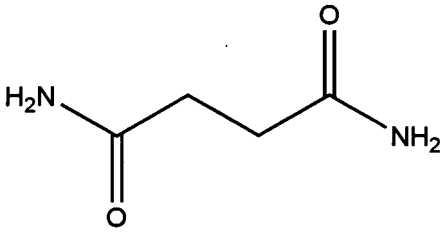
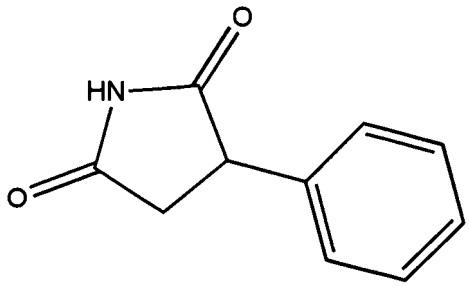



succinamide




phenylsuccinimide


succinonitrile